



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 179285

TO: Chun Crowder
Location: REM-3B59/3C70
Art Unit: 1644
Thursday, February 16, 2006
Case Serial Number: 10/524134

From: Toby Port
Location: Biotech-Chem Library
REM-1A59
Phone: 571-272-2523

toby.port@uspto.gov

Search Notes

Examiner Crowder,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port
X22523

Handwritten text, possibly a signature or date, oriented vertically.

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:53:06 ; Search time 10.3246 Seconds
(without alignments)
147.285 Million cell updates/sec

Title: US-10-524-134-4

Sequence: 1 DILITOSPALISVSPGERSV.....CQOSNTWPTFGGTGKLEIK 107

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 107799 seqs, 1421169 residues

Total number of hits satisfying chosen parameters: 107799

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:

1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
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3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	557	100.0	107	US-11-108-135-26	Sequence 26, Appl
2	557	100.0	107	US-11-126-978-26	Sequence 26, Appl
3	499	89.6	107	US-11-004-590-234	Sequence 234, Appl
4	484	86.9	107	US-11-010-954-3	Sequence 3, Appl
5	484	86.9	107	US-11-053-750-3	Sequence 3, Appl
6	484	86.9	107	US-11-053-749-3	Sequence 3, Appl
7	484	86.9	107	US-11-170-753-3	Sequence 3, Appl
8	484	86.9	107	US-11-179-359-3	Sequence 3, Appl
9	484	86.9	107	US-11-181-030-3	Sequence 3, Appl
10	484	86.9	107	US-11-182-033-3	Sequence 3, Appl
11	484	86.9	107	US-11-195-589-3	Sequence 3, Appl
12	484	86.9	109	US-11-005-726-10	Sequence 10, Appl
13	484	86.9	117	US-11-005-726-12	Sequence 12, Appl
14	484	86.9	214	US-11-005-726-163	Sequence 163, Appl
15	484	86.9	226	US-11-183-205-42	Sequence 42, Appl
16	447	80.3	108	US-11-003-726-7	Sequence 7, Appl
17	445	79.9	107	US-11-108-135-18	Sequence 18, Appl
18	445	79.9	107	US-11-126-978-18	Sequence 18, Appl
19	440	79.0	107	US-11-004-590-379	Sequence 379, Appl
20	437	78.5	107	US-11-108-135-30	Sequence 20, Appl
21	437	78.5	107	US-11-004-590-251	Sequence 251, Appl
22	437	78.5	107	US-11-004-590-259	Sequence 259, Appl
23	437	78.5	107	US-11-004-590-324	Sequence 324, Appl
24	437	78.5	107	US-11-004-590-381	Sequence 381, Appl
25	437	78.5	107	US-11-126-978-20	Sequence 20, Appl

26	436	78.3	107	US-11-004-590-250	Sequence 250, Appl
27	436	78.3	107	US-11-004-590-257	Sequence 257, Appl
28	436	78.3	107	US-11-004-590-260	Sequence 260, Appl
29	436	78.3	107	US-11-004-590-323	Sequence 323, Appl
30	435	78.1	107	US-11-004-590-248	Sequence 248, Appl
31	435	78.1	107	US-11-004-590-255	Sequence 255, Appl
32	435	78.1	108	US-11-005-726-5	Sequence 5, Appl
33	434	77.9	107	US-11-004-590-246	Sequence 246, Appl
34	433	77.7	107	US-11-108-135-22	Sequence 22, Appl
35	433	77.7	107	US-11-004-590-258	Sequence 258, Appl
36	433	77.7	107	US-11-004-590-325	Sequence 325, Appl
37	433	77.7	107	US-11-126-978-22	Sequence 22, Appl
38	432	77.6	107	US-11-004-590-249	Sequence 249, Appl
39	432	77.6	107	US-11-004-590-254	Sequence 254, Appl
40	432	77.6	107	US-11-004-590-282	Sequence 282, Appl
41	432	77.6	107	US-11-004-590-312	Sequence 312, Appl
42	432	77.6	108	US-11-005-726-8	Sequence 8, Appl
43	431	77.4	107	US-11-004-590-245	Sequence 245, Appl
44	431	77.4	107	US-11-004-590-293	Sequence 293, Appl
45	431	77.4	107	US-11-004-590-303	Sequence 303, Appl

ALIGNMENTS

RESULT 1
US-11-108-135-26
Sequence 26, Application US/11108135
Publication No. US20050260213A1
GENERAL INFORMATION:
APPLICANT: Koenig, Scott
APPLICANT: Veri, Maria Concetta
APPLICANT: Tuallion, Nadine
APPLICANT: Bonvin, Ezio
APPLICANT: Stavenhagen, Jeffrey
APPLICANT: Rankin, Christopher
TITLE OR INVENTION: FC-gamma-RIIb-specific antibodies and methods of use thereof
FILE REFERENCE: 11183-018-999
CURRENT APPLICATION NUMBER: US/11/108,135
CURRENT FILING DATE: 2005-04-15
PRIOR APPLICATION NUMBER: US 60/562,804
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 60/582,044
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/582,045
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/654,713
PRIOR FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 26
LENGTH: 107
TYPE: PRT
ORGANISM: mus sp.
FEATURE:
OTHER INFORMATION: Mouse 286 light chain variable region
US-11-108-135-26
Query Match 100.0%; Score 557; DB 7; Length 107;
Best Local Similarity 100.0%; Pred. No. 8.2e-39;
Matches 107; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DILITOSPALISVSPGERSVSCRTSGISTGNIHWYQRTNGPFRLLIKVSEISIGIPS 60
DB 1 DILITOSPALISVSPGERSVSCRTSGISTGNIHWYQRTNGPFRLLIKVSEISIGIPS 60
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DB 61 RFSGSGGTDFILINSVESEDIADYYCQOSNTWPTFGGTGKLEIK 107
RESULT 2
US-11-126-978-26

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; Sequence 26, Application US/1126978
; Publication No. US20060013810A1
; GENERAL INFORMATION:
; APPLICANT: Johnson, Leslie Sydnor
; APPLICANT: Huang, Ling
; TITLE OF INVENTION: HUMANIZED FCGAMMARIB-SPECIFIC ANTIBODIES AND METHODS OF USE THEREIN
; FILE REFERENCE: 11183-018-999
; CURRENT APPLICATION NUMBER: US/11/126,978
; CURRENT FILING DATE: 2005-05-10
; PRIOR APPLICATION NUMBER: 60/582,043
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: 60/569,882
; PRIOR FILING DATE: 2004-05-10
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 107
; TYPE: PRT
; ORGANISM: mus sp.
; FEATURE:
; OTHER INFORMATION: Mouse 286 light chain variable region
US-11-126-978-26
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Query Match 100.0%; Score 557; DB 7; Length 107;
Best Local Similarity 100.0%; Pred. No. 8,2e-39;
Matches 107; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 DILTOSPAIISVSGERVSFSCRTSOSIGTNIHWYQORTNGFPRLLIKNVSEISIGIPS 60
Qy 61 RFSGSGSTDFILSINSVESEDIADYCCQSNTPFTFGGKTLEIK 107
Db 61 RFSGSGSTDFILSINSVESEDIADYCCQSNTPFTFGGKTLEIK 107
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RESULT 3
US-11-004-590-234
; Sequence 234, Application US/11004590
; Publication No. US20060008883A1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hammond, Phillip W.
; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
; TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
; FILE REFERENCE: 185832/US/5
; CURRENT APPLICATION NUMBER: US/11/004,590
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: Patencin version 3.3
; SEQ ID NO 234
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-004-590-234
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Best Local Similarity 89.7%; Pred. No. 3,8e-34;
Matches 96; Conservative 2; Mismatches 9; Indels 0; Gaps 0;
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Db 1 DILTOSPAIISVSGERVSFSCRTSOSIGTNIHWYQORTNGFPRLLIKNVSEISIGIPS 60
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Qy 61 RFSGSGSTDFILSINSVESEDIADYCCQSNTPFTFGGKTLEIK 107
Db 61 RFSGSGSTDFILSINSVESEDIADYCCQSNTPFTFGGKTLEIK 107
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RESULT 4
US-11-010-954-3
; Sequence 3, Application US/11010954
; Publication No. US20050249735A1
; GENERAL INFORMATION:
; APPLICANT: Le, Junming
; APPLICANT: Vilcek, Jan
; APPLICANT: Daddona, Peter
; APPLICANT: Ghayeb, John
; APPLICANT: Knight, David
; APPLICANT: Siegel, Scott
; APPLICANT: Shealy, David
; TITLE OF INVENTION: Methods of Treating Ankylosing Spondylitis Using Anti-TNF Antib
; TITLE OF INVENTION: and Peptides of Human Tumor Necrosis Factor
; FILE REFERENCE: 0975.1005-043
; CURRENT APPLICATION NUMBER: US/11/010,954
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 10/637,759
; PRIOR FILING DATE: 2003-08-08
; PRIOR APPLICATION NUMBER: US 09/920,137
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 09/927,703
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 09/756,398
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: US 60/236,826
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: US 60/223,360
; PRIOR FILING DATE: 2000-08-07
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Mus Balb/c
US-11-010-954-3
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Query Match 86.9%; Score 484; DB 7; Length 107;
Best Local Similarity 85.0%; Pred. No. 6e-33;
Matches 91; Conservative 8; Mismatches 8; Indels 0; Gaps 0;
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Db 1 DILTOSPAIISVSGERVSFSCRTSOSIGTNIHWYQORTNGFPRLLIKNVSEISIGIPS 60
Qy 61 RFSGSGSTDFILSINSVESEDIADYCCQSNTPFTFGGKTLEIK 107
Db 61 RFSGSGSTDFILSINSVESEDIADYCCQSNTPFTFGGKTLEIK 107
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RESULT 5
US-11-053-750-3
; Sequence 3, Application US/11053750
; Publication No. US20050255104A1
; GENERAL INFORMATION:
; APPLICANT: Le, Junming
; APPLICANT: Vilcek, Jan
; APPLICANT: Daddona, Peter
; APPLICANT: Ghayeb, John
; APPLICANT: Knight, David
; APPLICANT: Siegel, Scott
; APPLICANT: Scallion, Bernard
; TITLE OF INVENTION: Methods of Treating Psoriasis Using
; TITLE OF INVENTION: Anti-TNF Receptor Fusion Proteins
; FILE REFERENCE: 0975.1005-045
; CURRENT APPLICATION NUMBER: US/11/053,750
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: U.S. 09/927,703
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:52:22 ; Search time 106.061 Seconds
(without alignments)
421.527 Million cell updates/sec

Title: US-10-524-134-4

Perfect score: 557
Sequence: 1 DILITOSPALISVSGERSV.....COQSNTPFTFGGCKLEIK 107

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	557	100.0	107	4	US-10-643-857-4
2	557	100.0	107	5	US-10-524-134-4
3	504	90.5	107	5	US-10-923-068-507
4	504	90.5	108	4	US-10-412-703A-129
5	503	90.3	107	3	US-09-842-776A-58
6	503	90.3	107	4	US-10-467-546-1
7	503	90.3	107	6	US-11-050-435-32
8	503	90.3	107	6	US-11-050-435-32
9	503	90.3	111	6	US-11-050-435-6
10	503	90.3	214	4	US-10-467-546-3
11	503	90.3	214	5	US-10-666-332-3
12	500	89.8	107	4	US-10-239-656-38
13	500	89.8	510	4	US-10-239-656-49
14	499	89.6	107	4	US-10-308-817-129
15	499	89.6	107	4	US-10-453-698-129
16	499	89.6	107	6	US-11-004-054-2
17	499	89.6	127	4	US-10-374-600-5
18	499	89.6	127	4	US-10-374-600-11
19	499	89.6	127	4	US-10-374-600-15
20	499	89.6	127	4	US-10-374-600-15
21	499	89.6	127	4	US-10-374-600-15
22	499	89.6	127	4	US-10-374-600-15
23	499	89.6	127	4	US-10-374-600-15
24	498	89.4	107	5	US-10-901-736-1
25	498	89.4	107	5	US-10-901-736-1
26	498	89.4	244	3	US-09-940-391-1
27	498	89.4	244	4	US-10-336-210-8

28	497	89.2	107	4	US-10-239-656-28	Sequence 28, Appli
29	497	89.2	510	4	US-10-239-656-48	Sequence 48, Appli
30	496	89.0	107	4	US-10-308-817-130	Sequence 130, App
31	496	89.0	107	4	US-10-453-698-130	Sequence 130, App
32	489	87.8	214	5	US-10-488-074-72	Sequence 72, Appli
33	489	87.8	214	5	US-10-488-074-68	Sequence 68, Appli
34	484	86.9	107	3	US-09-756-301A-3	Sequence 3, Appli
35	484	86.9	107	3	US-09-927-703-3	Sequence 3, Appli
36	484	86.9	107	3	US-09-766-535A-3	Sequence 3, Appli
37	484	86.9	107	3	US-09-756-161A-3	Sequence 3, Appli
38	484	86.9	107	3	US-09-756-398B-3	Sequence 3, Appli
39	484	86.9	107	3	US-09-897-724-3	Sequence 3, Appli
40	484	86.9	107	4	US-10-010-229-3	Sequence 3, Appli
41	484	86.9	107	4	US-10-043-450-3	Sequence 3, Appli
42	484	86.9	107	4	US-10-044-534-3	Sequence 3, Appli
43	484	86.9	107	4	US-10-043-432-3	Sequence 3, Appli
44	484	86.9	107	4	US-10-208-145-3	Sequence 3, Appli
45	484	86.9	107	4	US-10-198-845-3	Sequence 3, Appli

ALIGNMENTS

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RESULT 1
US-10-643-857-4
Sequence 4, Application US/10643857
Publication No. US20040185045A1
GENERAL INFORMATION:
APPLICANT: Verig, Maria Conceita
TITLE OF INVENTION: Anti-FcγRIIB monoclonal antibodies and their use in enhancing
FILE REFERENCE: 11183-010-999
CURRENT APPLICATION NUMBER: US/10/643,857
CURRENT FILING DATE: 2003-08-14
PRIOR APPLICATION NUMBER: 60/403,266
PRIOR FILING DATE: 2002-08-14
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.2
SEQ ID NO 4
LENGTH: 107
TYPE: PRT
ORGANISM: Homo sapiens
US-10-643-857-4

Query Match 100.0%; Score 557; DB 4; Length 107;
Best Local Similarity 100.0%; Pred. No. 1.6e-46;
Matches 107; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DILITOSPALISVSGERSVFSCTSGTSGTINIHWOORTNGFFRLIKNVSEISGIPS 60
Db 1 DILITOSPALISVSGERSVFSCTSGTSGTINIHWOORTNGFFRLIKNVSEISGIPS 60

Cy 61 RFGSGSGTDFILISINVSSEDIADYYCOQSNTPFTFGGCKLEIK 107
Db 61 RFGSGSGTDFILISINVSSEDIADYYCOQSNTPFTFGGCKLEIK 107

RESULT 2
US-10-524-134-4
Sequence 4, Application US/10524134
Publication No. US20050215767A1
GENERAL INFORMATION:
APPLICANT: Koenig, Scott
TITLE OF INVENTION: Anti-FcγRIIB monoclonal antibodies and their use in enhancing
FILE REFERENCE: 11183-003-999
CURRENT APPLICATION NUMBER: US/10/524,134
CURRENT FILING DATE: 2005-02-11
PRIOR APPLICATION NUMBER: PCT/US03/25399
PRIOR FILING DATE: 2003-08-14
PRIOR APPLICATION NUMBER: 60/403,266

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; PRIOR FILING DATE: 2002-08-14
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-524-134-4

Query Match      100.0%; Score 557; DB 5; Length 107;
Best Local Similarity 100.0%; Pred. No. 1.6e-46;
Matches 107; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DILLTQSPALISVSPGERVSFSCRTSOSIGTNIHWYQOQTNGFPRLLIKVNSESISGIPS 60
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DB      1 DILLTQSPALISVSPGERVSFSCRTSOSIGTNIHWYQOQTNGFPRLLIKVNSESISGIPS 60

QY      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107
        |||
DB      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107

RESULT 3
US-10-923-068-507
; Sequence 507, Application US/10923068
; Publication No. US20050042664A1
; GENERAL INFORMATION:
; APPLICANT: Wu, Herren
; APPLICANT: Dall'Acqua, William
; APPLICANT: Damachroder, Melissa
; TITLE OF INVENTION: HUMANIZATION OF ANTIBODIES
; FILE REFERENCE: A6600US
; CURRENT APPLICATION NUMBER: US/10/923,068
; CURRENT FILING DATE: 2004-08-20
; NUMBER OF SEQ ID NOS: 518
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 507
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-923-068-507

Query Match      90.5%; Score 504; DB 5; Length 107;
Best Local Similarity 90.7%; Pred. No. 2.3e-41;
Matches 97; Conservative 1; Mismatches 9; Indels 0; Gaps 0;

QY      1 DILLTQSPALISVSPGERVSFSCRTSOSIGTNIHWYQOQTNGFPRLLIKVNSESISGIPS 60
        |||
DB      1 DILLTQSPALISVSPGERVSFSCRTSOSIGTNIHWYQOQTNGFPRLLIKVNSESISGIPS 60

QY      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107
        |||
DB      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107

RESULT 4
US-10-412-703A-129
; Sequence 129, Application US/10412703A
; Publication No. US20030219439A1
; GENERAL INFORMATION:
; APPLICANT: Reed et al.
; TITLE OF INVENTION: Recombinant Anti-Interleukin-9 Antibodies
; FILE REFERENCE: I1400US
; CURRENT APPLICATION NUMBER: US/10/412,703A
; CURRENT FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/371,728
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/371,683
; PRIOR FILING DATE: 2002-04-12
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 129
; LENGTH: 108
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-412-703A-129

Query Match      90.5%; Score 504; DB 4; Length 108;
Best Local Similarity 90.7%; Pred. No. 2.3e-41;
Matches 97; Conservative 1; Mismatches 9; Indels 0; Gaps 0;

QY      1 DILLTQSPALISVSPGERVSFSCRTSOSIGTNIHWYQOQTNGFPRLLIKVNSESISGIPS 60
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DB      1 DILLTQSPALISVSPGERVSFSCRTSOSIGTNIHWYQOQTNGFPRLLIKVNSESISGIPS 60

QY      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107
        |||
DB      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107

RESULT 5
US-09-842-776A-58
; Sequence 58, Application US/09842776A
; Publication No. US20040023316A1
; GENERAL INFORMATION:
; APPLICANT: CONNEX GMBH
; TITLE OF INVENTION: NEW METHOD FOR DETECTING ACID-RESISTANT MICROORGANISMS
; FILE REFERENCE: 41735
; CURRENT APPLICATION NUMBER: US/09/842,776A
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: PCT/EP99/08212
; PRIOR FILING DATE: 1999-10-29
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 58
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-842-776A-58

Query Match      90.3%; Score 503; DB 3; Length 107;
Best Local Similarity 91.6%; Pred. No. 2.9e-41;
Matches 98; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY      1 DILLTQSPALISVSPGERVSFSCRTSOSIGTNIHWYQOQTNGFPRLLIKVNSESISGIPS 60
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QY      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107
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DB      61 RFSGSGSGTDFLTLSINSVSESDIADYCCQSNTPWFTFGGKLEIK 107

RESULT 6
US-10-467-546-1
; Sequence 1, Application US/10467546
; Publication No. US20040096901A1
; GENERAL INFORMATION:
; APPLICANT: Gregorio Avereas
; APPLICANT: Frank Kolbinger
; APPLICANT: Jose M. Carballedo Herrera
; APPLICANT: Andrae Aszodi
; APPLICANT: Jose W. Saldanha
; APPLICANT: Bruce M. Hall
; TITLE OF INVENTION: Therapeutic binding molecules
; FILE REFERENCE: PCT/EP02/01420
; CURRENT APPLICATION NUMBER: US/10/467,546
; CURRENT FILING DATE: 2003-08-08
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Artificial
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: February 15, 2006, 17:36:50 ; Search time 30.9737 Seconds
(without alignments)
285.607 Million cell updates/sec

Title: US-10-524-134-4

Sequence: 1 DILLTQSPALISVSPGRVS.....CQGSNTWPTFGGSKLEIK 107

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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- 2: /cgn2_6/ptodata/1/iaa/6 COMB.pdp:*
- 3: /cgn2_6/ptodata/1/iaa/H COMB.pdp:*
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- 5: /cgn2_6/ptodata/1/iaa/RE COMB.pdp:*
- 6: /cgn2_6/ptodata/1/iaa/backfilltest.pdp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	498	89.4	107	1 US-08-476-176B-4	Sequence 4, Appli
2	498	89.4	107	2 US-08-127-721A-4	Sequence 4, Appli
3	498	89.4	107	2 US-08-485-246A-4	Sequence 4, Appli
4	498	89.4	244	2 US-09-244-369B-1	Sequence 1, Appli
5	498	89.4	244	2 US-09-940-391-1	Sequence 1, Appli
6	494	88.7	240	1 US-07-956-399-2	Sequence 2, Appli
7	492	88.3	107	1 US-08-233-081B-40	Sequence 40, Appli
8	491	88.2	239	1 US-07-956-399-4	Sequence 4, Appli
9	487	87.4	106	1 US-08-800-198-4	Sequence 4, Appli
10	487	87.4	106	2 US-09-296-595-4	Sequence 4, Appli
11	487	87.4	240	1 US-08-800-198-8	Sequence 8, Appli
12	487	87.4	240	2 US-09-296-595-8	Sequence 8, Appli
13	484	86.9	107	1 US-08-193-102-3	Sequence 3, Appli
14	484	86.9	107	1 US-08-324-799-3	Sequence 3, Appli
15	484	86.9	107	1 US-08-193-661A-3	Sequence 3, Appli
16	484	86.9	107	2 US-09-133-119-3	Sequence 3, Appli
17	484	86.9	107	2 US-08-192-093A-3	Sequence 3, Appli
18	484	86.9	107	2 US-09-756-301B-3	Sequence 3, Appli
19	484	86.9	107	2 US-09-756-398B-3	Sequence 3, Appli
20	480	86.2	143	1 US-08-653-402B-8	Sequence 8, Appli
21	477	85.6	106	1 US-08-326-362-4	Sequence 4, Appli
22	438	78.6	107	1 US-08-436-463-20	Sequence 20, Appli
23	438	78.6	108	2 US-09-233-290-27	Sequence 27, Appli
24	438	78.6	109	1 US-07-942-245-4	Sequence 4, Appli
25	435	78.1	107	1 US-08-107-669D-1	Sequence 1, Appli
26	435	78.1	107	1 US-08-472-788A-1	Sequence 1, Appli
27	435	78.1	107	1 US-08-477-531B-1	Sequence 1, Appli

28	435	78.1	107	1 US-08-082-842A-1	Sequence 1, Appli
29	425	76.3	107	1 US-07-634-278-62	Sequence 62, Appli
30	425	76.3	107	1 US-08-477-728-62	Sequence 62, Appli
31	425	76.3	107	1 US-08-474-040-62	Sequence 62, Appli
32	425	76.3	107	1 US-08-487-200-62	Sequence 62, Appli
33	425	76.3	107	2 US-08-484-537-62	Sequence 62, Appli
34	425	76.3	127	1 US-07-634-278-83	Sequence 83, Appli
35	425	76.3	127	1 US-08-477-728-83	Sequence 83, Appli
36	425	76.3	127	1 US-08-474-040-83	Sequence 83, Appli
37	425	76.3	127	1 US-08-487-200-83	Sequence 83, Appli
38	425	76.3	127	2 US-08-484-537-83	Sequence 83, Appli
39	422	75.8	127	1 US-08-436-463-4	Sequence 4, Appli
40	417	74.9	127	1 US-08-476-176B-6	Sequence 6, Appli
41	417	74.9	127	2 US-08-127-721A-6	Sequence 6, Appli
42	417	74.9	127	2 US-08-485-246A-6	Sequence 6, Appli
43	415	74.5	127	1 US-08-436-463-18	Sequence 18, Appli
44	413	74.1	127	1 US-08-476-176B-8	Sequence 8, Appli
45	413	74.1	127	2 US-08-127-721A-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-08-476-176B-4
Sequence 4, Application US/08476176B
Patent No. 5958708
GENERAL INFORMATION:
APPLICANT: Hardman, No. 5958708man
APPLICANT: Kolbinger, Frank
APPLICANT: Saldanha, Jose
TITLE OF INVENTION: Reshaped monoclonal antibodies against an
NUMBER OF SEQUENCES: 55
CORRESPONDENCE ADDRESSES:
ADDRESSEE: No. 5958708artis Patent Department
STREET: 59 Route 10
CITY: East Hanover
STATE: New Jersey
COUNTRY: USA
ZIP: 07936-1080
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,176B
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/127,721
FILING DATE: 27-SEPTEMBER-1993
APPLICATION NUMBER: US 07/952,802
FILING DATE: 25-SEPTEMBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: No. 5958708ak, Henry P.
REGISTRATION NUMBER: 33,200
REFERENCE/DOCKET NUMBER: 4-19276/A/P2/CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 277-5110
TELEFAX: (908) 277-4306
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-476-176B-4
Query Match 89.4%; Score 498; DB 1; Length 107;
Best Local Similarity 89.7%; Pred. No. 2.8e-39;
Matches 96; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

QY 1 DILLTOSPALISVSPGERVSFSCRTSOSIGTNIMHYOQRTNGFPRLLIKNVSEISIGIPS 60
DB 1 DILLTOSPALISVSPGERVSFSCRTSOSIGTNIMHYOQRTNGFPRLLIKNVSEISIGIPS 60
QY 61 RFSGSGGTDFILINSVSESDIADYYCQGSNTWPTFTGGGTKEIK 107
DB 61 RFSGSGGTDFILINSVSESDIADYYCQGSNTWPTFTGGGTKEIK 107

RESULT 2
US-08-127-721A-4
Sequence 4, Application US/08127721A
Patent No. 6066718
GENERAL INFORMATION:
APPLICANT: Hardman, No. 6066718man
APPLICANT: Kolbinger, Frank
APPLICANT: Saldanha, Jose
TITLE OF INVENTION: Reshaped monoclonal antibodies against an
NUMBER OF SEQUENCES: 55
CORRESPONDENCE ADDRESSES:
ADDRESSEE: No. 6066718artis Patent and Trademark Department
STREET: 59 Route 10
CITY: East Hanover
STATE: New Jersey
COUNTRY: USA
ZIP: 07936-1080
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/127,721A
FILING DATE: 27-SEPTEMBER-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/952,802
FILING DATE: 25-SEPTEMBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: No. 6066718ak, Henry P.
REGISTRATION NUMBER: 33,200
REFERENCE/DOCKET NUMBER: 4-19276/A/P2/CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 277-5110
TELEFAX: (908) 277-4306
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-127-721A-4

Query Match 89.4%; Score 498; DB 2; Length 107;
Best Local Similarity 89.7%; Pred. No. 2.8e-39;
Matches 96; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

QY 1 DILLTOSPALISVSPGERVSFSCRTSOSIGTNIMHYOQRTNGFPRLLIKNVSEISIGIPS 60
DB 1 DILLTOSPALISVSPGERVSFSCRTSOSIGTNIMHYOQRTNGFPRLLIKNVSEISIGIPS 60
QY 61 RFSGSGGTDFILINSVSESDIADYYCQGSNTWPTFTGGGTKEIK 107
DB 61 RFSGSGGTDFILINSVSESDIADYYCQGSNTWPTFTGGGTKEIK 107

RESULT 3
US-08-485-246A-4
Sequence 4, Application US/08485246A
Patent No. 6072035
GENERAL INFORMATION:

APPLICANT: Hardman, No. 6072035man
APPLICANT: Kolbinger, Frank
APPLICANT: Saldanha, Jose
TITLE OF INVENTION: Reshaped monoclonal antibodies against an
NUMBER OF SEQUENCES: 55
CORRESPONDENCE ADDRESSES:
ADDRESSEE: No. 6072035artis Patent Department
STREET: 59 Route 10
CITY: East Hanover
STATE: New Jersey
COUNTRY: USA
ZIP: 07936-1080
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,246A
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/127,721
FILING DATE: 27-SEPTEMBER-1993
APPLICATION NUMBER: US 07/952,802
FILING DATE: 25-SEPTEMBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: No. 6072035ak, Henry P.
REGISTRATION NUMBER: 33,200
REFERENCE/DOCKET NUMBER: 4-19276/A/P2/CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 277-5110
TELEFAX: (908) 277-4306
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-246A-4

Query Match 89.4%; Score 498; DB 2; Length 107;
Best Local Similarity 89.7%; Pred. No. 2.8e-39;
Matches 96; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

QY 1 DILLTOSPALISVSPGERVSFSCRTSOSIGTNIMHYOQRTNGFPRLLIKNVSEISIGIPS 60
DB 1 DILLTOSPALISVSPGERVSFSCRTSOSIGTNIMHYOQRTNGFPRLLIKNVSEISIGIPS 60
QY 61 RFSGSGGTDFILINSVSESDIADYYCQGSNTWPTFTGGGTKEIK 107
DB 61 RFSGSGGTDFILINSVSESDIADYYCQGSNTWPTFTGGGTKEIK 107

RESULT 4
US-09-244-369B-1
Sequence 1, Application US/09244369B
Patent No. 6418338
GENERAL INFORMATION:
APPLICANT: Barbera-Guillam, Emilio
TITLE OF INVENTION: Method for detecting and surgically removing lymphoid tissue invo
FILE REFERENCE: Phy-01
CURRENT APPLICATION NUMBER: US/09/244,369B
CURRENT FILING DATE: 1999-02-04
PRIOR APPLICATION NUMBER: US 60/073,882
PRIOR FILING DATE: 1998-02-06
PRIOR APPLICATION NUMBER: US 60/077,970
PRIOR FILING DATE: 1998-03-13
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1


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FT STRAND 90 95
FT HELIX 100 102
FT STRAND 104 110
SQ SEQUENCE 115 AA; 12615 MW; C17BECT58C577E00 CRC64;
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Db 21 DILITQSPALISVSPGERVSPFCRTSQSIGTNIHWYQQRINGFPRLLIKNVSEISIGIPS 80
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Db 81 RPSGSGSGTDFILSINSVSEEDIDYCCQSNTP 115
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RESULT 2

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AC Q65211;
DT 25-OCT-2004 (TREMBLrel. 28, Created)
DT 25-OCT-2004 (TREMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)
DE Anti-HIV-1 reverse transcriptase single-chain variable.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Hybridoma; PubMed=8648670;
RA Shaheen F., Duan L., Zhu M., Bagasra O., Pomerantz R.J.;
RT "Targeting human immunodeficiency virus type 1 reverse transcriptase
RT by intracellular expression of the viral life cycle.";
RL J. Virol. 70:3392-3400(1996).
DR EMBL; U48716; AAB64342.1; -; mRNA.
DR SMR; Q65211; 2-132.
DR GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00409; IG_2.
DR SMART; SM00408; IGC2_2.
DR SMART; SM00406; IGV_2.
DR PROSITE; PS00835; IG_LIKE; 2.
KW Immunoglobulin domain; RNA-directed DNA polymerase.
SQ SEQUENCE 262 AA; 27842 MW; 7DF20138E53865E4 CRC64;
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Best Local Similarity 69.2%; Pred. No. 1.9e-33;
Matches 74; Conservative 15; Mismatches 18; Indels 0; Gaps 0;

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Db 62 RPSGSGSGTDFILSINSVSEEDIDYCCQSNTPFTFGGTTKEIK 108
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RESULT 3

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AC Q6GMW0;
DT 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
DE IGV1-5 protein.
GN IGV1-5;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Spleen; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Straubeberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Sherman C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uedtin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Boeak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Hellton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butlerfield Y.S.N., Krzywinski M.I., Skalski U., Smallus D.E.,
RA Schercher A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Spleen;
RA Director MGC Project;
RL Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC073792; AAH73792.1; -; mRNA.
DR SMR; Q6GMW0; 21-233.
DR GO; GO:0016021; C:Integral to membrane; IEA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003597; Ig_c1.
DR InterPro; IPR003066; IG_MHC.
DR InterPro; IPR003596; Ig_v.
DR InterPro; IPR003596; Ig_v.
DR Pfam; PF07654; CI-sect_1.
DR SMART; SM00409; IG_2.
DR SMART; SM00407; IGC1_1.
DR SMART; SM00406; IGV_1.
DR PROSITE; PS00835; IG_LIKE; 2.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
SQ SEQUENCE 235 AA; 25765 MW; 4360C36B6D4133F5 CRC64;
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Query Match 64.4%; Score 358.5; DB 2; Length 235;
Best Local Similarity 64.8%; Pred. No. 1.2e-29;
Matches 70; Conservative 13; Mismatches 24; Indels 1; Gaps 1;

1 DILITQSPALISVSPGERVSPFCRTSQSIGTNIHWYQQRINGFPRLLIKNVSEISIGIPS 60

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceeleration Ltd.

OM protein - protein search, using sw model

Run on: February 15, 2006, 17:32:01 ; Search time 22.9956 Seconds
(without alignments)
447.702 Million cell updates/sec

Title: US-10-524-134-4
Perfect score: 557
Sequence: 1 DILLTOSPAILSVSPGERVSV.....COQSNWTFPTGGTKEIK 107

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 80:*
1: Dirl:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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3	455	81.7	115	1 KVM5L7	Ig kappa chain pre
4	425	76.3	107	2 A45722	anti-glycoprotein
5	424	76.1	107	2 B45722	anti-glycoprotein
6	423	75.9	123	2 S35479	Ig kappa chain pre
7	421	75.6	106	2 PLO267	Ig kappa chain V r
8	415	75.0	102	2 S26346	Ig kappa chain V r
9	415	74.5	107	2 C45722	anti-glycoprotein
10	415	74.5	138	2 A26471	Ig kappa chain pre
11	408.5	73.3	87	2 PH1082	Ig light chain V r
12	408	73.2	104	2 B43413	Ig kappa chain V r
13	384	68.9	103	2 S19975	Ig kappa chain V r
14	377.5	67.8	115	2 JEO244	Ig kappa chain V r
15	376	67.5	117	2 S40362	Ig kappa chain - h
16	370	66.4	144	2 PLO106	Ig kappa chain pre
17	365	65.5	128	2 S40343	Ig kappa chain V-I
18	360	64.6	111	2 S23828	Ig kappa chain V r
19	359	64.5	107	2 S34005	Ig kappa chain V r
20	357.5	64.2	114	2 S54905	Ig kappa chain V r
21	356	63.9	215	2 JEO243	Ig kappa chain V r
22	354	63.6	108	2 S19674	Ig kappa chain V r
23	352	63.2	106	2 PCA282	Ig kappa chain (an
24	352	63.2	108	2 G44151	Ig kappa chain V r
25	352	63.2	128	2 A56701	Ig kappa chain V r
26	350.5	62.9	109	1 K3HUPM	Ig kappa chain V-I
27	349	62.7	125	2 S40344	Ig kappa chain V-J
28	348	62.5	128	1 K3H041	Ig kappa chain pre
29	348	62.5	129	2 S29627	Ig kappa chain V r

30	347	62.3	128	2 S40379	Ig kappa chain V-J
31	345	61.9	107	2 A28195	Ig kappa chain V r
32	343	61.6	111	1 KVM537	Ig kappa chain V r
33	342.5	61.5	109	2 G30607	Ig kappa chain V-I
34	342.5	61.5	131	2 S40328	Ig kappa chain - h
35	342	61.4	128	2 S40345	Ig kappa chain V-J
36	341.5	61.3	116	2 B26555	Ig kappa chain V-I
37	341	61.2	108	2 PLO204	anti-DNA autoantib
38	341	61.2	125	2 S40349	Ig kappa chain V-J
39	340.5	61.1	120	2 S66536	Ig light chain V r
40	340	61.0	111	2 S05963	Ig kappa chain V-J
41	339	60.9	108	2 B49047	Ig kappa chain V r
42	339	60.9	117	2 S42466	Ig kappa chain V r
43	339	60.9	129	2 S40317	Ig kappa chain - h
44	339	60.7	132	2 S40334	Ig kappa chain - h
45	338	60.7	107	2 S36269	Ig lambda chain V

ALIGNMENTS

RESULT 1

C30502
Ig kappa chain V region (D444) - mouse
C:Species: Mus musculus (house mouse)
C>Date: 03-Nov-1988 #sequence_revision 03-Nov-1988 #text_change 21-Jan-2000
C/Accession: C30502
R:Ellat, D.; Webster, D.M.; Rees, A.R.
J. Immunol. 141, 1745-1753, 1988
A>Title: V region sequences of anti-DNA and anti-RNA autoantibodies from NZB/NZW F-1 mice
A/Reference number: A30502; MUID:88315787; PMID:2457627
A/Accession: C30502
A>Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-108 <EIL>
A:Cross-references: UNIPARC:UPI0000114DCF; GB:M21907; NID:G197071; PIDN:AAA38907.1; PID:G
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C/Keywords: heterotetramer; immunoglobulin
F:16-90/Domain: immunoglobulin homology <IMM>

Query Match 90.3%; Score 503; DB 2; Length 108;
Best Local Similarity 89.7%; Pred. No. 1.3e-38;
Matches 96; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

QY 1 DILLTOSPAILSVSPGERVSVSCRTSOSIGTINIMHYOORTNGFPLLIKVMSESISGIPS 60
DB 1 DILLTOSPAILSVSPGERVSVSCRTSOSIGTINIMHYOORTNGFPLLIKVMSESISGIPS 60
QY 61 RFGSGSGTDFLTINSVSESDIADYCCOQSNWTFPTGGTKEIK 107
DB 61 RFGSGSGTDFLTINSVSESDVADYCCOQSNWTFPTGGTKEIK 107

RESULT 2

PNO445
Ig kappa chain precursor V-I region - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jan-2000
C/Accession: PNO445
R:Kaluzs, B.; Betz, G.; Shao, H.; Diamantstein, T.; Weidle, U.H.
Gene 122, 321-328, 1992
A>Title: A general method for chimerization of monoclonal antibodies by inverse polymerat
A/Reference number: PNO444; MUID:93138402; PMID:1339379
A/Accession: PNO445
A/Molecule type: mRNA
A/Residues: 1-128 <RNA>
A:Cross-references: UNIPARC:UPI0000176795; GB:L02347
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C/Keywords: heterotetramer; immunoglobulin
F:1-10/Domain: signal sequence #status predicted <SIG>
F:11-128/Product: Ig light chain kappa-1 V region #status predicted <MAT>
F:26-100/Domain: immunoglobulin homology <IMM>

Query Match	89.6%	Score 499;	DB 2;	Length 128;
Best Local Similarity	89.7%	Pred. No. 3.5e-38;		
Matches 96;	Conservative	5;	Mismatches 6;	Indels 0;
				Gaps 0;

Dy
Db

1 DILTQSPALISVSPGERVSFSCRTSQSIGTNHMYQQRTNGFPRLLIKAVSESIIGIPS 600
:
11 DVLLTQSPALISVSPGERVSFSCRASQSIGTIHWYQQRTNGPRLLIKAVASESISIGIPS 700

```

QY      61  RFGSGSGTDFILINSVESEDIADYCCQOSNTWPTFGGKLEIK 107
      |||||:|||||:|||||
DB      71  RFGSGSGTDFILINSVESEDIADYCCQQTNSWPTFGGKLEIK 117

```

RESULT 3
KVM5L7

Ig kappa chain precursor V region (L7) - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 18-Dec-1981 #sequence_revision 18-Dec-1991 #text_change 09-Jul-2004
 C/Accession: A01925
 R/Pech, M.; Hochel, J.; Schnell, H.; Zachau, H.G.
 J Biol Chem 265: 10087-10091, 1990

Query Match	81.7%;	Score 455;	DB 1;	Length 115;
Best Local Similarity	92.6%;	Pred. No. 2.9e-34;		
Matches	88;	Mismatches	5;	Indels 0; Gaps 0;

```

QY      1 DILLTSPALISVSPGERVVSFSCRTSQSICGTNHHYQQRRNGFPRLLIKAVSESISGIPSS 60C
        |||||
DB      21 DILLTQSPALISVSPGERVVSFSCRASQSIGTSIHMYQQRRNGSPRLLIKAVSESISGIPSS 80C

```

```
QY      61 RFGSGSGGTFFILINSVESEDIADYCCQSNTP 95
      |||||
Db      81 RFGSGSGGTFFILINSVESEDIADYCCQSNTP 115
```

RESULT 4

anti-glycoprotein H monoclonal antibody 118H-chain variable domain (Mab 5) - mouse (first)
C:Species: Mus musculus (house mouse)
C:Date: 03-Mar-1994 #sequence_revision 18-Nov-1994 #text_change 21-Jan-2000
C:Accession: A45722
R:Simpson, J.A.; Chow, J.C.; Baker, J.; Avdalovic, N.; Yuan, S.; Au, D.; Co, M.S.; Vasqu
J. Virol. 67, 489-496, 1993
A:Title: Neutralizing monoclonal antibodies that distinguish three antigenic sites on hu
A:Reference number: A45722; MUID:93100833; PMID:7677958

Query Match	76.3%;	Score 425;	DB 2;	Length 107;
Best Local Similarity	73.8%;	Pred. No. 1.4e-31;		
Matches	79;	Conservative 12;	Mismatches 16;	Indels 0;
			Gaps	0;

QY 1 DILITQSPALTSVSGERVSFSCRTQSIGTNIHWQORTNGPRLLIKNVSESTIGIPS 60
 ||:||||| ||: ||| ||| :|||||: ||| ||| :|||||
 Db 1 DIVLTQSPALTSVTPGDSVSLSCRASOSISNNLHWYQKSHESPRLIKVASQSIGIPS 60

```

QY      61 RFGSGSGTDFILSINSVESEDLADYYCCQSNFTWFTFGGKLEIK 107
      |||||:::|||||:|||||
Db      61 RFGSGSGTDFILSVNGVETEDFGMYFCQQSNQSNWPTFGGKLEIK 107

```

RESULT 5
DATE 700

anti-glycoprotein H monoclonal antibody light-chain variable domain (Mab 33) - mouse (first)
C:Species: Mus musculus (house mouse)
C:Date: 24-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 21-Jan-2000
C:Accession: B43722
R:Stinson, J., Chow, J.C.; Baker, J.; Avdalovic, N.; Yuan, S.; Au, D.; Co, M.S.; Vasquez
J. Virol. 67, 489-496, 1993
A:Title: Neutralizing monoclonal antibodies that distinguish three antigenic sites on human
A:Reference number: A45722; MUID:93100833; PMID:7677958
A:Accession: B45722

Query Match	76.1%;	Score 424;	DB 2;	Length 107;
Best Local Similarity	73.8%;	Pred. No. 1.7e-31;		
Matches	79;	Conservative	13;	Mismatches 15;
			Indels	0;
			Gaps	0;

```
Qy 1 DILTOSPALSVPGERVSPSCRTSGISGTHNHWQORTNGFRLLIKVSESIIGIPS 600
    ||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 DIVLTQSPATLSVTPGDSVSLSCRAQSISNNLHWYQQKSHESPRLLIKVASQSIIGIPS 600
```

```

Qy      61 RRSGGSGGTDFTLINSVESEDIADYYCQQSNTWPFPGGGTKLEIK 107
        |||||:||||:||||:||||:||||:||||:||||:||||:
Db      61 RFSGGSGGTDFTLINSVETEDFGMFCQQQTNSWPHFGGGTKLEIK 107

```

RESULT 6

Ig kappa chain precursor V region - mouse (fragment)
 C:Species: Mus musculus (house mouse)
 C:Date: 19-Mar-1997 #sequence, revision 05-Dec-1998 #ext_change 21-Jan-2000
 C:Accession: S35479
 R:Takeda, Y.; Wise, K.S.; Hoffman, R.W.
 Nucleic Acids Res. 20, 4099, 1992
 A:Title: Nucleotide sequences of immunoglobulin heavy and light chain V-regions from a mouse
 A:Reference number: S35479; PMID:923375706; PMID:1387203

Query Match	75.9%;	Score 423;	DB 2;	Length 123;
Best Local Similarity	74.8%;	Pred. No. 2.4e-31;		
Matches	80;	Conservative 12;	Mismatches 15;	Indels 0;
			Gaps	0

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:22:00 ; Search time 262.338 Seconds
(without alignments)
179.210 Million cell updates/sec

Title: US-10-524-134-4

Sequence: 1 DILLTQSPALTSVSPGRVS.....CQGSNTWPFRTGGSTKLEIK 107

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378761 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0*

Listing first 45 summaries

Database :

1: A_Geneseq_21: *
2: geneeqp1980s: *
3: geneeqp1990s: *
4: geneeqp2000s: *
5: geneeqp2001s: *
6: geneeqp2002s: *
7: geneeqp2003as: *
8: geneeqp2004s: *
9: geneeqp2005s: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	557	100.0	107	ADL00215	Adl00215 Human Fcg
2	510	91.6	214	AEC20776	Aec20776 M-CSF spe
3	504	90.5	107	ADY31675	Ady31675 Anti-IL9
4	504	90.5	108	ADG75665	Adg75665 Humanised
5	504	90.5	109	AEC20766	Aec20766 M-CSF spe
6	504	90.5	214	AEC20765	Aec20765 M-CSF spe
7	503	90.3	107	AAB10023	Aab10023 H. pylori
8	503	90.3	107	AAB86109	Aab86109 H. pylori
9	503	90.3	107	AAB86071	Aab86071 H. pylori
10	503	90.3	107	ABB99221	Abb99221 Part of c
11	503	90.3	107	ADY80249	Ady80249 Fragment
12	503	90.3	107	AEC07204	Aec07204 Murine NY
13	503	90.3	124	AEC07178	Aec07178 NYR-1002
14	503	90.3	214	ABB99223	Abb99223 Chimeric
15	503	90.3	214	ADY80251	Ady80251 Amino aci
16	500	89.8	107	AAU72850	Aau72850 Anti-NKG2
17	500	89.8	510	AAU72860	Aau72860 Human P53
18	499	89.6	107	AAR31219	Aar31219 Anti-IL2R
19	499	89.6	107	ADJ80369	Adj80369 Antibody
20	499	89.6	107	AEA48149	Aea48149 Mouse ant
21	499	89.6	107	AEA13698	Aea13698 Human ant
22	499	89.6	127	AAW08945	Aaw08945 Kappa lig
23	499	89.6	127	AAW08941	Aaw08941 Kappa lig
24	499	89.6	127	AAW08943	Aaw08943 Kappa lig

25	499	89.6	234	8	ADS14301	Ada14301 EGFR lig
26	499	89.6	236	8	ADP44635	Adp44635 Murine an
27	499	89.6	236	9	AEA60461	Aea60461 Mouse ant
28	498	89.4	107	2	AAW50190	Aaw50190 Light cha
29	498	89.4	107	2	AAW26979	Aaw26979 Light cha
30	498	89.4	107	8	ADR43401	Adr43401 Murine an
31	498	89.4	107	8	ADR31546	Adr31546 Murine TR
32	498	89.4	107	8	ADR87520	Adr87520 Mouse ant
33	498	89.4	107	9	AEC08122	Aec08122 Murine MA
34	498	89.4	242	4	AAB31426	Aab31426 Protein u
35	498	89.4	244	2	AAW31610	Aaw31610 Mucin Tn
36	498	89.4	244	4	AAW31425	Aaw31425 Protein u
37	497	89.2	107	5	AAU72842	Aau72842 Anti-NKG2
38	497	89.2	510	5	AAU72859	Aau72859 6ESR74-7
39	496	89.0	107	7	ADJ80370	Adj80370 FR homolo
40	495	88.9	651	2	AAW05135	Aaw05135 scFv(225)
41	495	88.9	892	2	AAW05140	Aaw05140 scFv2(225)
42	495	88.9	892	2	AAW05139	Aaw05139 scFv2(225)
43	495	88.9	1020	2	AAW05141	Aaw05141 scFv2(225)
44	494	88.7	127	2	AAW44176	Aaw44176 Monoclonal
45	493	88.5	106	9	AEA40019	Aea40019 Mouse ant

ALIGNMENTS

RESULT 1
ADL00215 standard; protein; 107 AA.
ID ADL00215
XX
AC ADL00215;
XX
DT 20-MAY-2004 (first entry)
XX
DE Human FcgammarIIb antibody light chain.
XX
CY cytostratic; antirheumatic; antiarthritic; antipsoriatic; dermatological;
KW immunosuppressive; antinflammatory; antiaesthetic; antiallergic;
KW immunosuppressive; nephrotropic; opthalmological;
KW B cell receptor-mediated signaling modulator;
KW Fc gamma RI-induced mast cell activation modulator;
KW B cell activation modulator; B cell proliferation modulator;
KW antibody production modulator; intracellular calcium influx modulator;
KW vaccine composition efficacy enhancer; gene therapy; FcgammarIIb; cancer;
KW breast cancer; ovarian cancer; prostate cancer; cervical cancer;
KW pancreatic cancer; chemotherapy; immunotherapy; radiation therapy;
KW hormonal therapy; autoimmune disorder; rheumatoid arthritis;
KW psoriatic arthritis; ankylosing spondylitis; Rieker's Syndrome;
KW psoriasis; lupus erythematosus; IGF-mediated allergic disorder; asthma;
KW allergic rhinitis; gastrointestinal allergy; eosinophilia;
KW conjunctivitis; glomerular nephritis; autoimmune disease; vaccine;
KW B cell malignancy; non-Hodgkin's lymphoma; solid tumour;
KW fragment of crystallisation gamma receptor IIB; antibody light chain;
human.
XX
OS Homo sapiens.
XX
PN WO2004016750-A2.
XX
PD 26-FEB-2004.
XX
PF 14-AUG-2003; 2003WO-US025339.
XX
PR 14-AUG-2002; 2002US-0403266P.
XX
PA (MACR-) MACROGENICS INC.
XX
PI Koenig S, Veri M;
XX WPI; 2004-203783/19.
XX N-PSDB; ADL00214.
XX Novel isolated antibody or its fragment useful for treating diseases

PT e.g., cancer, that specifically binds native FcgammarIIb with greater
 PT affinity than antibody or its fragment that binds native FcgammarIIA.
 XX
 PS Disclosure; SEQ ID NO 4, 174pp; English.

CC The invention describes an isolated antibody or its fragment (I) that
 CC specifically binds native FcgammarIIb. (I) is useful for treating cancer
 CC (e.g., breast, ovarian, prostate, cervical or pancreatic cancer) in a
 CC patient (e.g., human) having cancer with specific cancer antigen which
 CC involves administering a first antibody or its fragment which is (I) and
 CC a second antibody that specifically binds the cancer antigen and is
 CC cytotoxic. The above method further involves administration of one or
 CC more additional cancer therapies such as chemotherapy, immunotherapy,
 CC radiation therapy, hormonal therapy, or surgery. (I) is useful for
 CC treating an autoimmune disorder e.g., rheumatoid arthritis, psoriatic
 CC arthritis, ankylosing spondylitis, Reiter's Syndrome, psoriasis, or lupus
 CC erythematosus. The above method further involves administering to the
 CC patient a therapeutically effective amount of one or more anti-
 CC inflammatory agents or immunomodulatory agents e.g., small organic
 CC molecule such as methotrexate or corticosteroid. The anti-inflammatory
 CC agent is a non-steroidal anti-inflammatory drug e.g. aspirin or
 CC Ketoprofen. (I) is also useful for: treating IGE-mediated allergic
 CC disorder such as asthma, allergic rhinitis, gastrointestinal allergies,
 CC eosinophilia, conjunctivitis, or glomerular nephritis; enhancing an
 CC antibody mediated cytotoxic effect in a subject; diagnosing an autoimmune
 CC disease in a subject; enhancing an immune response to a vaccine
 CC composition in a subject; treating a B cell malignancy (e.g., non-
 CC Hodgkin's lymphoma); treating a disease in a patient; treating a solid
 CC tumour in a patient; and treating cancer in a patient. (I) has an altered
 CC affinity for an Fcgammar. (I) antibody binds FcgammarIIA with a higher
 CC affinity than a comparable antibody comprising a wild-type Fc region
 CC binds FcgammarIIIA. (I) has an enhanced antibody mediated effector
 CC function relative to a comparable antibody comprising a wild-type Fc
 CC region. This is the amino acid sequence of human fragment of
 CC crystallisation gamma receptor IIB (FcgammarIIB) antibody light chain.
 CC
 XX
 SQ Sequence 107 AA;

Query Match 100.0%; Score 557; DB 8; Length 107;
 Best Local Similarity 100.0%; Pred. No. 6.7e-41;
 Matches 107; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DILLTQSPALISVSGERVSFCRTSOSIGTNIHMYOQRTNGFPLLIKNSSESISGIPS 60
 DB 1 DILLTQSPALISVSGERVSFCRTSOSIGTNIHMYOQRTNGFPLLIKNSSESISGIPS 60
 QY 61 RFSGSGSGTDFILINSVSESDIADYYCQGSNTWPFRTGGGTKLEIK 107
 DB 61 RFSGSGSGTDFILINSVSESDIADYYCQGSNTWPFRTGGGTKLEIK 107

RESULT 2
 AEC20776 ID AEC20776 standard; protein; 214 AA.

AC AEC20776;
 XX 20-OCT-2005 (first entry)
 DE M-CSF specific murine antibody MC-3 light chain SEQ ID NO 15.

XX endocrine-gen.; antiarthritic; antibacterial; antiinflammatory;
 KW antirheumatic; antichryoid; bone metastases; calcium antagonist; cancer;
 KW cardiovascular-gen.; degeneration; eating-disorders-gen.;
 KW endocrine disease; endocrine-gen.; endocrine-gen.; gastrointestinal-gen.;
 KW genetic disorder; light chain; hepatotropic; hypercalcemia;
 KW immune disorder; immunotherapy; inflammation; monoclonal antibody;
 KW mouth disease; musculoskeletal disease; neoplasm; nephrotropic;
 KW osteopathic; osteoporosis; osteoporosis; pager's disease;
 KW periodontal disease; pharmaceutical; rheumatoid arthritis; MC-3.

XX Mus musculus.
 XX

PN WO2005068503-A2.

XX 28-JUL-2005.
 XX
 XX 06-JAN-2005; 2005WO-US000546.
 XX
 XX 07-JAN-2004; 2004US-0535181P.
 PR 02-JUN-2004; 2004US-0576417P.
 XX
 PA (CHIR) CHIRON CORP.
 PA (XOMA) XOMA TECHNOLOGY LTD.
 PI Liu C, Zimmerman DL, Harrowe GM, Kotche K, Kavanaugh WM, Long L;
 PI Calderon-Caccia M, Horwitz AH;
 DR WPI: 2005-597707/61.

PT Novel non-murine antibody that competes with monoclonal antibody RXI for
 PT binding to macrophage colony stimulating factor, useful for treating
 PT hypogonadism, hypercalcemia, rickets, scurvy, homocystinuria, cancer,
 PT osteoporosis.

Example 10; SEQ ID NO 15; 269pp; English.

XX The invention describes a non-murine antibody (I) that competes with
 CC monoclonal antibody RXI for binding to macrophage colony stimulating
 CC factor (M-CSF) by more than 75%, where the monoclonal antibody RXI has
 CC the heavy chain and light chain amino acid sequences having a fully
 CC defined 447 amino acids (SEQ ID NO. 2) and 214 amino acids (SEQ ID NO. 4)
 CC sequences given in the specification, respectively. (I) is useful for
 CC preventing a subject afflicted with a disease that causes or contributes
 CC to osteolysis, where the antibody effectively reduces the severity of
 CC bone loss associated with the disease. The disease is chosen from
 CC metabolic bone diseases associated with relatively increased osteoclast
 CC activity, including endocrinopathies, hypercalcemia, deficiency states,
 CC chronic diseases, and hereditary diseases, cancer, osteoporosis,
 CC osteopetrosis, inflammation of bone associated with arthritis and/or
 CC rheumatoid arthritis, periodontal disease, fibrous dysplasia, and/or
 CC Paget's disease. (I) is useful for preventing or treating metastatic
 CC cancer. Antibodies of the invention are useful for preventing or reducing
 CC bone loss; osteolysis; metastatic cancer to bone and cancer. (I) is
 CC useful for manufacturing a medicament for preventing or reducing bone
 CC loss in a patient exhibiting osteolysis, manufacturing a medicament for
 CC treating a patient afflicted with a disease that causes or contributes to
 CC osteolysis, and metastatic cancer to bone in a patient suffering from
 CC metastatic cancer, for manufacturing a medicament for treating a patient
 CC having cancer. (I) in synergistic combination, is useful for preparing a
 CC medicament for treating a patient exhibiting osteolysis. This is the
 CC amino acid sequence of macrophage colony stimulating factor (M-CSF)
 CC specific murine antibody MC-3 light chain.

SQ Sequence 214 AA;

Query Match 91.6%; Score 510; DB 9; Length 214;
 Best Local Similarity 92.5%; Pred. No. 1.7e-36;
 Matches 99; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DILLTQSPALISVSGERVSFCRTSOSIGTNIHMYOQRTNGFPLLIKNSSESISGIPS 60
 DB 1 DILLTQSPALISVSGERVSFCRTSOSIGTNIHMYOQRTNGFPLLIKNSSESISGIPS 60
 QY 61 RFSGSGSGTDFILINSVSESDIADYYCQGSNTWPFRTGGGTKLEIK 107
 DB 61 RFSGSGSGTDFILINSVSESDIADYYCQGSNTWPFRTGGGTKLEIK 107

RESULT 3
 ADY31675 ID ADY31675 standard; protein; 107 AA.

AC ADY31675;
 XX

DT 05-MAY-2005 (first entry)

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:53:06 / Search time 11.6754 Seconds
(without alignments)
147.285 Million cell updates/sec

Title: US-10-524-134-2

Perfect score: 651
Sequence: 1 QVQLQPVTELVIRPGASVMTL.....SDYYSGMDYWGQSTVTSS 121

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 107799 seqs, 14211699 residues

Total number of hits satisfying chosen parameters: 107799

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/PC7_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	651	100.0	121	7	US-11-108-135-28
2	651	100.0	121	7	US-11-126-978-28
3	529	81.3	121	7	US-11-108-135-24
4	529	81.3	121	7	US-11-126-978-24
5	502.5	77.2	122	6	US-10-932-334-73
6	460.5	70.7	118	7	US-11-126-978-48
7	457.5	70.3	120	6	US-10-932-334-72
8	453	69.6	113	7	US-11-177-648-7
9	453	69.6	462	7	US-11-177-648-9
10	452.5	69.5	120	6	US-10-932-334-71
11	452.5	68.9	248	6	US-10-512-184-36
12	452.5	69.5	615	6	US-10-512-184-50
13	450.5	69.2	120	6	US-10-983-357-3
14	450	69.1	119	7	US-11-221-900-10
15	449	69.0	117	6	US-10-932-334-76
16	448.5	68.9	120	6	US-10-932-334-74
17	448.5	68.9	120	6	US-10-932-334-78
18	445.5	68.4	124	6	US-10-932-334-7
19	445.5	68.4	124	6	US-10-932-334-13
20	445.5	68.4	124	6	US-10-932-334-70
21	445.5	68.4	143	6	US-10-932-334-52
22	444	68.2	666	6	US-10-981-356A-29
23	444	68.2	667	6	US-11-096-046-29
24	441.5	67.8	116	7	US-11-055-163-17
25	441.5	67.8	123	6	US-10-932-334-87

26	441.5	67.8	123	6	US-10-932-334-88	Sequence 88, Appl
27	441.5	67.8	123	6	US-10-932-334-92	Sequence 92, Appl
28	441.5	67.7	121	6	US-10-507-662-26	Sequence 26, Appl
29	436	67.0	121	6	US-10-507-662-25	Sequence 25, Appl
30	435	66.8	116	7	US-11-097-812-19	Sequence 19, Appl
31	435	66.8	121	7	US-11-107-028-35	Sequence 35, Appl
32	432.5	66.4	129	7	US-11-179-820-4	Sequence 4, Appl
33	432	66.4	121	6	US-10-932-334-81	Sequence 81, Appl
34	430.5	66.1	120	6	US-10-507-662-61	Sequence 61, Appl
35	429.5	66.0	118	6	US-10-932-334-75	Sequence 4, Appl
36	429	65.9	121	6	US-10-665-658-4	Sequence 52, Appl
37	429	65.9	121	7	US-11-107-028-52	Sequence 4, Appl
38	429	65.9	121	7	US-11-149-031-4	Sequence 4, Appl
39	429	65.9	133	7	US-11-069-834-2	Sequence 2, Appl
40	428	65.7	247	7	US-11-084-717-21	Sequence 21, Appl
41	428	65.7	247	7	US-11-179-244-21	Sequence 21, Appl
42	428	65.7	247	7	US-11-084-055B-21	Sequence 21, Appl
43	427.5	65.7	111	7	US-11-097-812-205	Sequence 205, App
44	427.5	65.7	120	6	US-10-932-334-77	Sequence 77, Appl
45	423	65.0	113	7	US-11-177-648-15	Sequence 15, Appl

ALIGNMENTS

RESULT 1
US-11-108-135-28
Sequence 28, Application US/11108135
Publication No. US20050260213A1
GENERAL INFORMATION:
APPLICANT: Koenig, Scott
APPLICANT: Veri, Maria Concetta
APPLICANT: Tsalion, Nadine
APPLICANT: Bonvini, Ezio
APPLICANT: Stavenhagen, Jeffrey
APPLICANT: Rankin, Christopher
TITLE OR INVENTION: R γ -gamma-R1B-specific antibodies and methods of use thereof
FILE REFERENCE: 11183-014-999
CURRENT APPLICATION NUMBER: US/11/108,135
CURRENT FILING DATE: 2005-04-15
PRIOR APPLICATION NUMBER: US 60/562,804
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 60/582,044
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/582,045
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/654,713
PRIOR FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 58
SOFTWARE: PatsSeq for Windows Version 4.0
SEQ ID NO 28
LENGTH: 121
TYPE: PRT
ORGANISM: mus sp.
FEATURE:
OTHER INFORMATION: Mouse 286 heavy chain variable region
US-11-108-135-28

Query Match 100.0%; Score 651; DB 7; Length 121;
Best Local Similarity 100.0%; Pred. No. 2.2e-47;
Matches 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 QVQLQPVTELVIRPGASVMTLSCASDYPFTNYYIMHWKORPGGLEWIGVIDPSDTPNY 60
DB 1 QVQLQPVTELVIRPGASVMTLSCASDYPFTNYYIMHWKORPGGLEWIGVIDPSDTPNY 60
QY NKKRKGATLTIVYSSSTAYMOLSLTSDSAVYYCARNDSDPYSGMDYWGQSTVTSS 120
DB 61 NKKRKGATLTIVYSSSTAYMOLSLTSDSAVYYCARNDSDPYSGMDYWGQSTVTSS 120
QY 121 S 121
DB 121 S 121


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RESULT 2
US-11-126-978-28
; Sequence 28, Application US/11126978
; Publication No. US20060013810A1
; GENERAL INFORMATION:
; APPLICANT: Johnson, Leslie Sydnor
; APPLICANT: Huang, Ling
; TITLE OF INVENTION: HUMANIZED FEGAMMARIIIB-SPECIFIC ANTIBODIES AND METHODS OF USE THEREOF
; FILE REFERENCE: 11183-018-999
; CURRENT APPLICATION NUMBER: US/11/126,978
; CURRENT FILING DATE: 2005-05-10
; PRIOR APPLICATION NUMBER: 60/582,043
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: 60/569,882
; PRIOR FILING DATE: 2004-05-10
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 121
; TYPE: PRT
; ORGANISM: mus sp.
; FEATURE:
; OTHER INFORMATION: Mouse 286 heavy chain variable region
US-11-126-978-28

Query Match      100.0%; Score 651; DB 7; Length 121;
Best Local Similarity 100.0%; Pred. No. 2.2e-47;
Matches 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  OVLOQPPTELVPRGASVWLSCKASDYPFTNYWIHWKORPGQGLEWIGVIDPSDTYPNY 60
DB      1  OVLOQPPTELVPRGASVWLSCKASDYPFTNYWIHWKORPGQGLEWIGVIDPSDTYPNY 60
QY      61  NKKFKGKATLTVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
DB      61  NKKFKGKATLTVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
QY      121  S 121
DB      121  S 121

RESULT 3
US-11-108-135-24
; Sequence 24, Application US/11108135
; Publication No. US20050260213A1
; GENERAL INFORMATION:
; APPLICANT: Koenig, Scott
; APPLICANT: Veri, Maria Concetta
; APPLICANT: Tuallion, Madine
; APPLICANT: Bonvin, Ezio
; APPLICANT: Stavenhagen, Jeffrey
; APPLICANT: Rankin, Christopher
; TITLE OF INVENTION: Fc-gamma-RIIb-specific antibodies and methods of use thereof
; FILE REFERENCE: 11183-014-999
; CURRENT APPLICATION NUMBER: US/11/108,135
; CURRENT FILING DATE: 2005-04-15
; PRIOR APPLICATION NUMBER: US 60/562,804
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/582,044
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/582,045
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/554,713
; PRIOR FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial sequence
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; FEATURE:
; OTHER INFORMATION: Humanized heavy chain variable region
US-11-108-135-24

Query Match      81.3%; Score 529; DB 7; Length 121;
Best Local Similarity 78.5%; Pred. No. 2.3e-37;
Matches 95; Conservative 11; Mismatches 15; Indels 0; Gaps 0;

QY      1  OVLOQPPTELVPRGASVWLSCKASDYPFTNYWIHWKORPGQGLEWIGVIDPSDTYPNY 60
DB      1  OVLOVSGAEVKKRQASVNVSCASGTTFTNYWIHWKORAPGQGLEWIGVIDPSDTYPNY 60
QY      61  NKKFKGKATLTVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
DB      61  NKKFKGKATLTVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
QY      121  S 121
DB      121  S 121

RESULT 4
US-11-126-978-24
; Sequence 24, Application US/11126978
; Publication No. US20060013810A1
; GENERAL INFORMATION:
; APPLICANT: Johnson, Leslie Sydnor
; APPLICANT: Huang, Ling
; TITLE OF INVENTION: HUMANIZED FEGAMMARIIIB-SPECIFIC ANTIBODIES AND METHODS OF USE THEREOF
; FILE REFERENCE: 11183-018-999
; CURRENT APPLICATION NUMBER: US/11/126,978
; CURRENT FILING DATE: 2005-05-10
; PRIOR APPLICATION NUMBER: 60/582,043
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: 60/569,882
; PRIOR FILING DATE: 2004-05-10
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Humanized heavy chain variable region
US-11-126-978-24

Query Match      81.3%; Score 529; DB 7; Length 121;
Best Local Similarity 78.5%; Pred. No. 2.3e-37;
Matches 95; Conservative 11; Mismatches 15; Indels 0; Gaps 0;

QY      1  OVLOQPPTELVPRGASVWLSCKASDYPFTNYWIHWKORPGQGLEWIGVIDPSDTYPNY 60
DB      1  OVLOVSGAEVKKRQASVNVSCASGTTFTNYWIHWKORAPGQGLEWIGVIDPSDTYPNY 60
QY      61  NKKFKGKATLTVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
DB      61  NKKFKGKATLTVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
QY      121  S 121
DB      121  S 121

RESULT 5
US-10-932-334-73
; Sequence 73, Application US/10932334
; Publication No. US20050249728A1
; GENERAL INFORMATION:
; APPLICANT: Immunogen, Inc.
; TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
; FILE REFERENCE: A8689
; CURRENT APPLICATION NUMBER: US/10/932,334
; CURRENT FILING DATE: 2004-09-02
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:52:22 ; Search time 119.939 Seconds
(without alignments)
421.527 Million cell updates/sec

Title: US-10-524-134-2

Perfect score: 651

Sequence: 1 QVQLQQPTVELVPRGASVNL.....SDYSGMDYWGQSTVTSS 121

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/ptodata/1/pubppaa/US08_PUBCOMB.pep:*
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5: /cgn2_6/ptodata/1/pubppaa/US10B_PUBCOMB.pep:*
6: /cgn2_6/ptodata/1/pubppaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	651	100.0	121	4	US-10-643-857-2 Sequence 2, Appl
2	651	100.0	121	5	US-10-524-134-2 Sequence 2, Appl
3	502.5	77.2	122	5	US-10-729-441-73 Sequence 73, Appl
4	502.5	77.2	122	5	US-10-897-406-73 Sequence 73, Appl
5	492.5	75.7	242	4	US-10-259-087A-18 Sequence 18, Appl
6	492.5	75.7	242	4	US-10-689-006-18 Sequence 18, Appl
7	491.5	75.5	118	5	US-10-816-938-23 Sequence 23, Appl
8	489	75.1	140	3	US-09-748-960-4 Sequence 4, Appl
9	487	74.8	464	4	US-10-216-484-9 Sequence 9, Appl
10	487	74.8	464	4	US-10-384-933-9 Sequence 9, Appl
11	483.5	74.3	120	4	US-10-036-246-12 Sequence 12, Appl
12	472	72.5	143	5	US-10-010-729-66 Sequence 66, Appl
13	469	72.0	365	5	US-10-880-028-44 Sequence 44, Appl
14	469	72.0	365	5	US-10-880-320-44 Sequence 44, Appl
15	467.5	71.8	118	4	US-10-435-614-11 Sequence 11, Appl
16	467.5	71.8	260	4	US-10-435-614-20 Sequence 20, Appl
17	466.5	71.7	467	4	US-10-742-405-12 Sequence 12, Appl
18	464.5	71.4	122	2	US-08-779-784-18 Sequence 28, Appl
19	462.5	71.0	116	5	US-10-895-135-63 Sequence 63, Appl
20	461	70.8	143	2	US-08-779-784-26 Sequence 26, Appl
21	458.5	70.4	118	4	US-10-436-782-5 Sequence 5, Appl
22	458.5	70.4	118	6	US-11-004-795A-5 Sequence 5, Appl
23	458.5	70.4	118	6	US-11-004-794A-5 Sequence 5, Appl
24	458.5	70.4	121	5	US-10-879-994-12 Sequence 82, Appl
25	458.5	70.4	248	5	US-10-879-994-14 Sequence 14, Appl
26	458.5	70.4	248	5	US-10-610-452-14 Sequence 14, Appl
27	457.5	70.3	118	4	US-10-435-614-13 Sequence 13, Appl

28	457.5	70.3	120	4	US-10-351-748-24 Sequence 24, Appl
29	457.5	70.3	120	5	US-10-351-748-24 Sequence 24, Appl
30	457.5	70.3	120	5	US-10-729-441-72 Sequence 72, Appl
31	457.5	70.3	120	5	US-10-897-406-72 Sequence 72, Appl
32	457.5	70.3	122	4	US-10-096-246-10 Sequence 10, Appl
33	457.5	70.3	122	4	US-10-096-246-11 Sequence 11, Appl
34	457.5	70.3	177	4	US-10-435-614-21 Sequence 21, Appl
35	455	69.9	138	3	US-09-753-436-78 Sequence 78, Appl
36	455	69.9	138	4	US-10-163-942-78 Sequence 78, Appl
37	455	69.9	138	5	US-10-745-115-78 Sequence 78, Appl
38	452.5	69.5	118	5	US-10-789-090-9 Sequence 9, Appl
39	452.5	69.5	120	5	US-10-729-441-71 Sequence 71, Appl
40	452.5	69.5	120	5	US-10-895-135-57 Sequence 57, Appl
41	452.5	69.5	120	5	US-10-897-406-71 Sequence 71, Appl
42	451.5	69.4	126	4	US-10-312-116-44 Sequence 44, Appl
43	450.5	69.2	120	5	US-10-842-011-3 Sequence 3, Appl
44	450	69.1	116	3	US-09-940-727B-17 Sequence 17, Appl
45	450	69.1	119	3	US-09-795-515-30 Sequence 30, Appl

ALIGNMENTS

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RESULT 1
US-10-643-857-2
; Sequence 2, Application US/10643857
; Publication No. US20040185045A1
; GENERAL INFORMATION:
; APPLICANT: Koenig, Scott
; TITLE OF INVENTION: Anti-FcγRIIb monoclonal antibodies and their use in enhancing
; TITLE OR INVENTION: Immune response
; FILE REFERENCE: 11183-010-999
; CURRENT APPLICATION NUMBER: US/10/643,857
; CURRENT FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: 60/403,266
; PRIOR FILING DATE: 2002-08-14
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-643-857-2

Query Match      100.0%; Score 651; DB 4; Length 121;
Best Local Similarity 100.0%; Pred. No. 9e-52;
Matches 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QVQLQQPTVELVPRGASVNLSCASDYPFTNYIHWKRPQGLEWIGVIDPSDTPNY 60
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Db       1 QVQLQQPTVELVPRGASVNLSCASDYPFTNYIHWKRPQGLEWIGVIDPSDTPNY 60
        |||

QY      61 NKEFKGATLVVSSSTAYMQLSLTSDSAVYYCARNGSDSYSGMDYWGQSTVTSS 120
        |||
Db       61 NKEFKGATLVVSSSTAYMQLSLTSDSAVYYCARNGSDSYSGMDYWGQSTVTSS 120
        |||

QY      121 S 121
        |
Db       121 S 121

RESULT 2
US-10-524-134-2
; Sequence 2, Application US/10524134
; Publication No. US20050215767A1
; GENERAL INFORMATION:
; APPLICANT: Koenig, Scott
; APPLICANT: Veri, Maria Concetta
; TITLE OF INVENTION: Anti-FcγRIIb monoclonal antibodies and their use in enhancing
; TITLE OR INVENTION: Immune response
; FILE REFERENCE: 11183-003-999
; CURRENT APPLICATION NUMBER: US/10/524,134
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? CURRENT FILING DATE: 2005-02-11
? PRIORITY APPLICATION NUMBER: PCT/US03/25399
? PRIORITY FILING DATE: 2003-08-14
? PRIORITY APPLICATION NUMBER: 60/403,266
? PRIORITY FILING DATE: 2002-08-14
? NUMBER OF SEQ ID NOS: 4
? SOFTWARE: PatentIn version 3.2
? SEQ ID NO 2
? LENGTH: 121
? TYPE: PRT
? ORGANISM: Homo sapiens
? JS-10-524-134-2

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Query Match	100.0%	Score 651; DB 5;	Length 121;
Best Local Similarity	100.0%	Pred. No. 9e-52;	
Matches 121; Conservative	0;	Mismatches	0; Gaps 0;

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60	60	120
1	1	61
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60	60	120

QY	121	S	121
Db	121	S	121

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RESULT 3
US-10-729-441-73
Sequence 73: Application US/10729441
Publication No. US20040265307A1
GENERAL INFORMATION:
APPLICANT: Immunogen, Inc.
TITLE OF INVENTION: ANTI-IGF-1 RECEPTOR ANTIBODY
FILE REFERENCE: A8689
CURRENT APPLICATION NUMBER: US/10/729,441
CURRENT FILING DATE: 2003-12-08
PRIOR APPLICATION NUMBER: 10/170,390
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn version 3.2
SEQ ID NO 73
LENGTH: 122
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antibody structures
US-10-729-441-73

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Query Match	77.2%	Score 502.5;	DB 5;	Length 122;
Best Local Similarity	78.6%	Pred. No. 3.3e-38;		
Matches 99; Conservative	7;	Mismatches 11;	Indels 9;	Gaps 2

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QY      1 QVQLDLPPTLYRPGASVNLSCASGYPTFTNIHWKVRPGGGLTMIQYIDSDSPNY 60
Db      1 QVQLDLPPTLYRPGASVNLSCASGYPTFTNIHWKVRPGGGLTMIQYIDSDSPNY 60
QY      1 QVQLDLPPTLYRPGASVNLSCASGYPTFTNIHWKVRPGGGLTMIQYIDSDSPNY 60
Db      1 QVQLDLPPTLYRPGASVNLSCASGYPTFTNIHWKVRPGGGLTMIQYIDSDSPNY 60
QY      61 NKEFGKATLTIVVSSSTAYMQLSLTSDSAVYYCARNGSDSYSG---MDYMGCGT 115
Db      61 NKEFGKATLTIVVSSSTAYMQLSLTSDSAVYYCARNGSDSYSG---MDYMGCGT 115
QY      61 NKEFGKATLTIVVSSSTAYMQLSLTSDSAVYYCARNGSDSYSG---MDYMGCGT 115
Db      61 NKEFGKATLTIVVSSSTAYMQLSLTSDSAVYYCARNGSDSYSG---MDYMGCGT 115
QY      116 SYTVSS 121
Db      117 SYTVSS 122

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RESULT 4
US-10-897-406-73
; Sequence 73, Application US/10897406
; Publication No. US20050186203A1

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1 GENERAL INFORMATION:
2 APPLICANT: Immunogen, Inc.
3 TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
4 FILE REFERENCE: A8338
5 CURRENT APPLICATION NUMBER: US/10/897,406
6 CURRENT FILING DATE: 2004-07-23
7 PRIOR APPLICATION NUMBER: US/10/170,390
8 PRIOR FILING DATE: 2002-06-14
9 NUMBER OF SEQ ID NOS: 96
10 SOFTWARE: PatentIn version 3.1
11 SEQ ID NO 73
12 LENGTH: 122
13 TYPE: PRT
14 ORGANISM: Artificial Sequence
15 FEATURE:
16 OTHER INFORMATION: synthetic antibody structure
17 US-10-897-406-73

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Query Match	77.2%	Score 502.5	DB 5	Length 122
Best Local Similarity	78.6%	Pred. No. 3,35e-38		
Matches 99; Conservative	7	Mismatches 11	Indels 9	Gaps 2

[illegible]

QY	116	SVTVSS	121
Db	117	SVTVSS	122

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RESULT 5
US-10-259-087A-18
: Sequence 18, Application US/10259087A
: Publication No. US20030130190A1
: GENERAL INFORMATION:
: APPLICANT: Vanderbilt University
: APPLICANT: Hallahan, Dennis E
: APPLICANT: Ou, Shmian
: TITLE OF INVENTION: IN VIVO PANNING FOR LIGANDS TO RADIATION-INDUCED MOLECULES
: FILE REFERENCE: 1242/47/2
: CURRENT APPLICATION NUMBER: US/10/259,087A
: CURRENT FILING DATE: 2002-09-27
: PRIOR APPLICATION NUMBER: US 60/328123
: PRIOR FILING DATE: 2001-10-03
: NUMBER OF SEQ ID NOS: 20
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 18
: LENGTH: 242
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Artificial antibody ligand number 1
US-10-259-087A-18

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Query Match	75.7%	Score 492.5;	DB 4;	Length 242;
Best Local Similarity	77.7%	Pred. No. 5.76-37;		
Matches 94; Conservative	9;	Mismatches 15;	Indels 3;	Gaps 1.

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 Db 3 QVQLQDQSGAEVLPFGASVKKSCKASPTTTDDVTHMHWKQKQGGGLGEMTGVDPDSTSY 62
 QY 61 NKKEFGKATLVVAVSSSTIAVMQSLSTSDSDSAVYCAANGSDIRYSGMDVGGQGTSTVTS 120
 Db 63 NQKFGKATLVVDESSSTIAVMQSLSTSDSDSAVYCAARG---YSSADVGGQGTSTVTS 113

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:36:50 ; Search time 35.0263 Seconds
(without alignments)
285.607 Million cell updates/sec

Title: US-10-524-134-2

Perfect score: 651
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Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

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- 5: /cgn2_6/ptodata/1/iaa/RB COMB.pap:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	493	75.7	119	1	US-08-553-497A-12 Sequence 12, Appl
2	483.5	74.3	120	2	US-10-092-246-12 Sequence 12, Appl
3	483.5	74.3	120	2	US-10-096-246A-12 Sequence 12, Appl
4	481	73.9	119	1	US-08-553-497A-8 Sequence 8, Appl
5	477	73.3	119	2	US-08-881-037-62 Sequence 62, Appl
6	477	73.3	445	1	US-08-353-400-33 Sequence 33, Appl
7	477	73.3	464	1	US-08-353-400-36 Sequence 36, Appl
8	475	73.0	119	2	US-08-881-037-60 Sequence 60, Appl
9	474	72.8	119	2	US-08-881-037-61 Sequence 61, Appl
10	474	72.8	288	2	US-09-423-439-38 Sequence 38, Appl
11	474	72.8	673	2	US-09-423-439-32 Sequence 32, Appl
12	473	72.7	119	2	US-08-881-037-63 Sequence 63, Appl
13	471	72.4	119	2	US-09-406-532-2 Sequence 2, Appl
14	466	71.6	119	2	US-09-254-180C-16 Sequence 16, Appl
15	466	71.6	119	2	US-09-254-180C-149 Sequence 149, App
16	466	71.6	119	2	US-08-913-555-23 Sequence 23, Appl
17	466	71.6	138	2	US-09-254-180C-143 Sequence 143, App
18	466	71.6	219	2	US-09-254-180C-180 Sequence 180, App
19	464.5	71.4	122	1	US-08-236-520-9 Sequence 9, Appl
20	464.5	71.4	122	4	PCT-US95-05262-9 Sequence 9, Appl
21	463	71.1	111	2	US-08-881-037-14 Sequence 14, Appl
22	463	71.1	118	2	US-09-065-059-5 Sequence 5, Appl
23	463	71.1	118	2	US-08-913-555-5 Sequence 5, Appl
24	461	70.8	111	2	US-08-881-037-15 Sequence 15, Appl
25	461	70.8	143	1	US-08-236-520-7 Sequence 7, Appl
26	461	70.8	143	4	PCT-US95-05262-7 Sequence 7, Appl
27	460.5	70.7	118	2	US-08-766-350B-48 Sequence 48, Appl

28	460.5	70.7	269	1	US-08-428-257A-72	Sequence 72, Appl
29	460.5	70.7	269	1	US-08-491-988-3	Sequence 3, Appl
30	460.5	70.7	402	1	US-08-491-988-9	Sequence 9, Appl
31	460.5	70.7	415	1	US-08-491-988-7	Sequence 7, Appl
32	460.5	70.7	435	1	US-08-491-988-5	Sequence 5, Appl
33	460	70.7	111	2	US-08-881-037-16	Sequence 16, Appl
34	459	70.5	111	2	US-08-881-037-17	Sequence 17, Appl
35	457.5	70.3	122	2	US-10-082-246-10	Sequence 10, Appl
36	457.5	70.3	122	2	US-10-082-246-11	Sequence 11, Appl
37	457.5	70.3	122	2	US-10-096-246A-10	Sequence 10, Appl
38	457.5	70.3	122	2	US-10-096-246A-11	Sequence 11, Appl
39	456.5	70.1	241	1	US-08-235-838-11	Sequence 11, Appl
40	456.5	70.1	241	1	US-08-465-473B-11	Sequence 11, Appl
41	456.5	70.1	637	1	US-08-235-838-16	Sequence 16, Appl
42	456.5	70.1	637	1	US-08-465-473B-16	Sequence 16, Appl
43	456	70.0	139	1	US-08-894-922A-5	Sequence 5, Appl
44	456	70.0	252	1	US-08-894-922A-14	Sequence 14, Appl
45	456	70.0	271	1	US-08-894-922A-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1
US-08-553-497A-12
Sequence 12, Application US/08553497A
Patent No. 5844093
GENERAL INFORMATION:
APPLICANT: KETTERBROUGH, C. A.
APPLICANT: BENDIG, MARY M.
APPLICANT: ANSELL, KEITH H.
APPLICANT: GUNSON, DETLEF
APPLICANT: ADAM, JAUDE
APPLICANT: MITYANS, FRANCES
APPLICANT: ROSELL, ELISABET
APPLICANT: BLASCO, FRANCES
APPLICANT: PIUTATS, JAUDE
TITLE OF INVENTION: ANTI-EGFR SINGLE-CHAIN FVS AND ANTI-EGFR
TITLE OF INVENTION: ANTIBODIES
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
STREET: 2200 CLARENDON BLVD. SUITE 1400
CITY: ARLINGTON
STATE: VA
COUNTRY: US
ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/553,497A
FILING DATE: 17-NOV-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/EP95/00978
FILING DATE: 16-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94104160.0
FILING DATE: 17-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94118970.6
FILING DATE: 02-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: HAMLET-KING, DIANA
REGISTRATION NUMBER: 33,302
REFERENCE/DOCKET NUMBER: MERCK 1726
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-243-6333
TELEFAX: 703-243-6410
INFORMATION FOR SEQ ID NO: 12:

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;
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 119 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
;
US-08-553-497A-12

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Query Match	75.7%	Score 493	DB 1	Length 119
Best Local	79.5%	Pred. No. 7.6e-37		
Matches 97	Conservative	8	Mismatches 13	Indels 4
			Gaps	2

[illegible]

RESULT 2
US-10-092-246-12
; Sequence 12, Application US/10092246

```

: TITLE OF INVENTION: Cloning, Expression, Sequencing, and Functional Enhancement of Mouse
: TITLE OF INVENTION: 8CFV Antibody Against Venezuelan Equine Encephalitis Virus (Vee)
: FILE REFERENCE: NEI-007
: CURRENT APPLICATION NUMBER: US/10/092,246
: CURRENT FILING DATE: 2002-03-13
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 12
: LENGTH: 120
: TYPE: PRT
: ORGANISM: Mouse hybridoma cell line 1A4A1
: JS-10-092-246-12

```

[illegible]

RESULT 3
US-10-096-246A-12
; Sequence 12, Application US/10096246A
; Patent No. 6818748
; GENERAL INFORMATION:
; APPLICANT: Fulcon, R. Elaine
; APPLICANT: Nagata, Leslie
; APPLICANT: Alaya, Azhar Z.
; TITLE OF INVENTION: Cloning, Expression, Sequencing, and Functional Enhancement of
; TITLE OF INVENTION: Monoclonal ScFv Antibody Against Venezuelan Equine Encephalitis

```

? TITLE OF INVENTION: Virus (VEE)
? FILE REFERENCE: NBL-0007
? CURRENT APPLICATION NUMBER: US-10/096,246A
? CURRENT FILING DATE: 2002-03-13
? NUMBER OF SEQ. ID NOS.: 39
? SOFTWARE: PatentIn version 3.2
? SEQ. ID NO.: 12
? LENGTH: 120
? TYPE: PRT
? ORGANISM: mouse
? US-10-096-246A-12

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Query Match	74.3%	Score 483.5	DB 2	Length 120
Best Local Similarity	76.6%	Pred. No. 5.4e-36		
Matches 95; Conservative	7;	Mismatches 15;	Indels 7;	Gaps 2.

[illegible]

QY	118	TVSS	121
Db	117	TVSS	120

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:22:45 ; Search time 155.496 Seconds
(without alignments)
549.012 Million cell updates/sec

Title: US-10-524-134-2

Perfect score: 651

Sequence: 1 QVLOQPVTBLVRPGASVWL.....SDYSGMDYWGQSTVTSS 121

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 05.80.*
1: uniprot_sprot.*
2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	495	76.0	142	Q924Q2_MOUSE	Q924Q2 mus musculu
2	491.5	75.5	143	Q91V67_MOUSE	Q91V67 mus musculu
3	487	74.8	142	Q924Q1_MOUSE	Q924Q1 mus musculu
4	483	74.2	616	Q504M7_MOUSE	Q504M7 mus musculu
5	481.5	74.0	143	Q924P9_MOUSE	Q924P9 mus musculu
6	475.5	73.0	482	Q8K172_MOUSE	Q8K172 mus musculu
7	474.5	72.9	145	Q924P7_MOUSE	Q924P7 mus musculu
8	474.5	72.9	145	Q924Q6_MOUSE	Q924Q6 mus musculu
9	474.5	72.9	145	Q924R4_MOUSE	Q924R4 mus musculu
10	472.5	72.6	145	Q924R1_MOUSE	Q924R1 mus musculu
11	470.5	72.3	145	Q924Q9_MOUSE	Q924Q9 mus musculu
12	467.5	71.8	143	Q924R0_MOUSE	Q924R0 mus musculu
13	462	71.0	140	Q924P8_MOUSE	Q924P8 mus musculu
14	460	70.7	146	Q924Q3_MOUSE	Q924Q3 mus musculu
15	460	70.7	146	Q924R8_MOUSE	Q924R8 mus musculu
16	457.5	70.3	139	HV07_MOUSE	P01751 mus musculu
17	457.5	70.3	145	Q924Q7_MOUSE	Q924Q7 mus musculu
18	457	70.2	140	Q924R2_MOUSE	Q924R2 mus musculu
19	454.5	69.8	617	Q4KML5_MOUSE	Q4KML5 mus musculu
20	452	69.4	138	HV48_MOUSE	P03980 mus musculu
21	448.5	68.9	143	Q924Q5_MOUSE	Q924Q5 mus musculu
22	448.5	68.9	143	Q8K0R2_MOUSE	Q8K0R2 mus musculu
23	447.5	68.7	143	Q924P5_MOUSE	Q924P5 mus musculu
24	447	68.7	144	Q924P5_MOUSE	Q924P5 mus musculu
25	446.5	68.6	141	Q924Q4_MOUSE	Q924Q4 mus musculu
26	445.5	68.4	137	Q924R6_MOUSE	Q924R6 mus musculu
27	444	68.2	146	Q924Q8_MOUSE	Q924Q8 mus musculu
28	443.5	68.1	143	Q924R7_MOUSE	Q924R7 mus musculu
29	441.5	67.8	143	Q924Q0_MOUSE	Q924Q0 mus musculu
30	441.5	67.8	145	Q924R3_MOUSE	Q924R3 mus musculu
31	441.5	67.8	590	Q4V9V8_MOUSE	Q4V9V8 mus musculu

32	439.5	67.5	136	Q7TEP3_MOUSE	Q7TEP3 mus musculu
33	438.5	67.4	143	Q91VA2_MOUSE	Q91VA2 mus musculu
34	437	67.1	481	Q91WT3_MOUSE	Q91WT3 mus musculu
35	435.5	66.9	114	Q9JL81_MOUSE	Q9JL81 mus musculu
36	434	66.7	140	HV02_MOUSE	P01746 mus musculu
37	434	66.7	468	Q569M9_MOUSE	Q569M9 mus musculu
38	431.5	66.3	486	Q5H2Z6_MOUSE	Q5H2Z6 mus musculu
39	430	66.1	458	Q5BJZ2_RAT	Q5BJZ2 ratu mus norv
40	428.5	65.8	139	Q924R5_MOUSE	Q924R5 mus musculu
41	428	65.7	120	HV03_MOUSE	P01747 mus musculu
42	427.5	65.7	120	HV50_MOUSE	P06329 mus musculu
43	425	65.3	473	Q9DBL4_MOUSE	Q9DBL4 mus musculu
44	421.5	64.7	110	Q9JL77_MOUSE	Q9JL77 mus musculu
45	421	64.7	117	Q9QX69_MOUSE	Q9QX69 mus musculu

ALIGNMENTS

RESULT 1					
ID	Q924Q2_MOUSE	PRELIMINARY;	PRT;	142 AA.	
AC	Q924Q2;				
DT	01-DEC-2001 (Tremblrel. 19, Created)				
DT	01-DEC-2001 (Tremblrel. 19, Last sequence update)				
DT	01-OCT-2003 (Tremblrel. 25, Last annotation update)				
DE	V303-D-J-C mu protein (Fragment).				
GN	Name=V303-D-J-C mu;				
OS	Mus musculus (Mouse).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;				
OC	Muridae; Murinae; Mus.				
OX	NCBI_TaxID=10090;				
RN	[1]				
RP	NCBIROTIDE SEQUENCE.				
RC	STRAIN=C57BL/6;				
RA	Kozono Y., Kozono H., Azuma T.;				
RL	Submitted (Aug-2001) to the EMBL/GenBank/DBJ databases.				
DR	EMBL; AB069910; BAB63926.1; -, mRNA.				
DR	HSSP; P01751; 1A6W.				
DR	Ensembl; ENSMUSG0000061773; Mus musculus.				
DR	InterPro; IPR003596; IG_V.				
DR	InterPro; IPR003596; IG_V.				
DR	SMART; SM00406; IGV; 1.				
DR	PROSITE; PS50835; IG_LIKE; 1.				
FT	NON_TER 1				
FT	NON_TER 142				
FT	SEQUENCE 142 AA; 15684 MW; 048809F90C0FBD7B CRC64;				
Query Match					
Best Local Similarity 76.0%; Score 495; DB 2; Length 142;					
Matches 95; Conservative 7; Mismatches 15; Indels 4; Gaps 1;					
QY	1	QVLOQPVTBLVRPGASVWLSCRASDPFTNYVIMHWKORPGQGLEWIGVYIDPSDTYPNY	60		
DB	1	QVLOQPVTBLVRPGASVWLSCRASDPFTNYVIMHWKORPGQGLEWIGVYIDPSDTYPNY	60		
QY	61	NKKEKGRATLVVSSSTAYMQLSLTSDSAVYYCARNDSDYSGMDYWGQSTVTSS	120		
DB	61	NKKEKGRATLVVSSSTAYMQLSLTSDSAVYYCARNDSDYSGMDYWGQSTVTSS	120		
QY	121	S 121			
DB	117	S 117			
RESULT 2					
ID	Q91V67_MOUSE	PRELIMINARY;	PRT;	143 AA.	
AC	Q91V67;				
DT	01-DEC-2001 (Tremblrel. 19, Created)				
DT	01-DEC-2001 (Tremblrel. 19, Last sequence update)				
DT	01-FEB-2005 (Tremblrel. 29, Last annotation update)				

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DE VHI86.2-D-J-C mu protein (V304-D-J-C mu protein) (Fragment).
GN Name=VHI86.2-D-J-C mu; Synonyms=V304-D-J-C mu;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6;
RA Kozono Y., Kozono H., Azuma T.;
RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB069912; BAB63928.1; -, mRNA.
DR EMBL; AB069914; BAB63930.1; -, mRNA.
DR PIR; S26744; S26744.
DR HSSP; P01751; 1A6W.
DR SMR; Q91V67; 1-129.
DR Ensemble; ENSMUSG0000021155; Mus musculus.
DR InterPro; IPR007110; Ig_Like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT NON_TER 143
SQ SEQUENCE 143 AA; 15775 MW; 91BC6012B44FEFBEF CRC64;

Query Match 75.5%; Score 491.5; DB 2; Length 143;
Best Local Similarity 78.5%; Pred. No. 3.8e-41;
Matches 95; Conservative 7; Mismatches 16; Indels 3; Gaps 1;

QY 1 OVULOQPTVELVRPGASVYMLSCKASDYPFTNYWIHWKORPGQGLEWIGVIDPSDTPYNY 60
DB 1 OVULOQPAELVRPGTSVKLSCKASGYFTFTSYMHVWVKORPGQGLEWIGVIDPSSTINY 60
QY 61 NKKFKGKATLTIVVSSSTAYVQSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
DB 61 NKKFKGKATLTIVVSSSTAYVQSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 117
QY 121 S 121
DB 118 S 118

RESULT 3
Q924Q1_MOUSE PRELIMINARY; PRT; 142 AA.
ID Q924Q1_MOUSE PRELIMINARY; PRT; 142 AA.
AC Q924Q1;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE V23-D-J-C mu protein (Fragment).
GN Name=AB069917; Synonyms=V23-D-J-C mu;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6;
RA Kozono Y., Kozono H., Azuma T.;
RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC Pubmed=2499887;
RA Baccaela R., Quang T.V., Gilbert M., Ternynck T., Avrameas S.;
RT "Two murine natural polyclonal antibodies are encoded by
RT nonmutated germ-line genes.";
RT Proc. Natl. Acad. Sci. U.S.A. 86:4624-4628 (1989).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC Pubmed=3135311;
RA Corbet S., Hien M., Roth C., Theze J., Fougereau M., Schliff C.;

```

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RT "Allogeneic manipulation of the GAT idiotypic cascade. Immunization of
RT C57BL/6 mice by BAB/c anti-idiotypes stimulates similar strain-
RT specific V genes as the original antigen.";
RL J. Immunol. 141:779-784 (1988).
RN [4]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=92381444; Pubmed=1512540; DOI=10.1084/jem.176.3.761;
RA Tillman D.M., Jou N.T., Hill R.J., Marion T.N.;
RT "Both IgM and IgG anti-DNA antibodies are the products of clonally
RT selective B cell stimulation in (NZB x NZM) F1 mice.";
RL J. Exp. Med. 176:761-779 (1992).
DR EMBL; AB069913; BAB63929.1; -, mRNA.
DR PIR; F33932; F33932.
DR PIR; I28833; I28833.
DR PIR; PH0985; PH0985.
DR PIR; PH1155; PH1155.
DR PIR; PH1156; PH1156.
DR PIR; PH1157; PH1157.
DR PIR; PH1158; PH1158.
DR HSSP; P01751; 1A6W.
DR SMR; Q924Q1; 1-128.
DR Ensemble; ENSMUSG0000021155; Mus musculus.
DR MGI; MGI:3576502; AB069917.
DR InterPro; IPR007110; Ig_Like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT NON_TER 142
SQ SEQUENCE 142 AA; 15622 MW; 2A4265CE4EA431B8 CRC64;

Query Match 74.8%; Score 487; DB 2; Length 142;
Best Local Similarity 78.5%; Pred. No. 1.1e-40;
Matches 95; Conservative 8; Mismatches 14; Indels 4; Gaps 1;

QY 1 OVULOQPTVELVRPGASVYMLSCKASDYPFTNYWIHWKORPGQGLEWIGVIDPSDTPYNY 60
DB 1 OVULOQPTVELVRPGASVYMLSCKASGYFTFTSYMHVWVKORPGQGLEWIGVINPANGCTNY 60
QY 61 NKKFKGKATLTIVVSSSTAYVQSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 120
DB 61 NKKFKGKATLTIVVSSSTAYVQSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTS 116
QY 121 S 121
DB 117 S 117

RESULT 4
Q504M7_MOUSE PRELIMINARY; PRT; 616 AA.
ID Q504M7_MOUSE PRELIMINARY; PRT; 616 AA.
AC Q504M7;
DT 13-SEP-2005 (TREMBLrel. 31, Created)
DT 13-SEP-2005 (TREMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TREMBLrel. 31, Last annotation update)
DE Hypothetical protein.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6NCT; TISSUE=Hematopoietic Stem Cell;
RX MEDLINE=22388257; Pubmed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ueda T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

```

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:22:00 ; Search time 296.662 Seconds
(without alignments)
179.210 Million cell updates/sec

Title: US-10-524-134-2
Perfect score: 651
Sequence: 1 QVQLQQPVTETLRPGASVML.....SDYSGMDYWGQSTVTSS 121

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_21:*

- 1: geneseqp1980s:*
- 2: geneseqp1990s:*
- 3: geneseqp2000s:*
- 4: geneseqp2001s:*
- 5: geneseqp2002s:*
- 6: geneseqp2003as:*
- 7: geneseqp2003bs:*
- 8: geneseqp2004s:*
- 9: geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	651	100.0	121	ADL00213	ADL00213 Human Fcg
2	502.5	77.2	122	ADH17833	ADH17833 Murine an
3	502.5	77.2	122	ADW11464	ADW11464 Murine an
4	502	77.1	119	ADP79380	ADP79380 Thyrotrop
5	502	75.7	124	ADP79384	ADP79384 Thyrotrop
6	493	75.7	119	AAR79863	AAR79863 Anti-EGFR
7	492.5	75.7	242	ABR62131	ABR62131 Single ch
8	492.5	75.7	242	ADT91207	ADT91207 Single ch
9	491.5	75.5	118	ADU39962	ADU39962 Antibody
10	491	75.4	119	AAM07436	AAM07436 Anti-DNA
11	489	75.1	140	AAW53815	AAW53815 Murine Ac
12	489	75.1	140	AAU1177	AAU1177 Mouse ant
13	489	75.1	144	AAW53816	AAW53816 Consensus
14	487	74.8	464	AAW83041	AAW83041 Anti-Fas
15	487	74.8	464	AAW83041	AAW83041 Anti-Fas
16	487	74.8	464	AAW83041	AAW83041 Anti-Fas
17	487	74.8	464	AAW83041	AAW83041 Anti-Fas
18	487	74.8	464	AAW83041	AAW83041 Anti-Fas
19	482	74.0	466	ADX39100	ADX39100 Mouse mon
20	482	74.0	466	ADX39100	ADX39100 Mouse mon
21	481	73.9	119	AAR79861	AAR79861 Anti-EGFR
22	477	73.3	137	AAW53818	AAW53818 Protein s
23	477	73.3	445	AAR76085	AAR76085 MAb 55.1
24	477	73.3	464	AAR76088	AAR76088 MAb 55.1

25	474.5	72.9	123	9	ADZ45377	ADZ45377 Murine fa
26	474	72.8	288	2	AAW82743	AAW82743 Fusion pr
27	474	72.8	673	2	AAW82742	AAW82742 Plasmid p
28	472	72.5	117	8	ADP77173	ADP77173 Anti-VAP-
29	472	72.5	119	8	ADG25806	ADG25806 Anti-CD30
30	472	72.5	119	8	ADG25812	ADG25812 Anti-CD30
31	472	72.5	143	8	AD126636	AD126636 Human ant
32	471.5	72.4	123	9	ADZ45369	ADZ45369 Murine fa
33	471	72.4	119	3	AAV92156	AAV92156 Murine 15
34	469	72.0	355	9	ADW77071	ADW77071 Heavy cha
35	468.5	72.0	123	9	ADZ45373	ADZ45373 Murine fa
36	468.5	72.0	123	9	ADZ45365	ADZ45365 Murine fa
37	467.5	71.8	118	9	ADZ21533	ADZ21533 Anti-Muc-
38	467.5	71.8	260	9	ADZ21542	ADZ21542 Anti-Muc-
39	466.5	71.7	467	8	ADQ14477	ADQ14477 Mouse ant
40	466	71.6	119	2	AAW00835	AAW00835 Variable
41	466	71.6	138	2	AAW50218	AAW50218 Amino aci
42	464.5	71.4	121	9	ADZ45353	ADZ45353 Murine fa
43	464.5	71.4	122	2	AAR84555	AAR84555 B-cell 1y
44	464.5	71.4	309	4	AAW70841	AAW70841 SNV-envy 1
45	463	71.1	111	2	AAW04586	AAW04586 Anti-DNA

ALIGNMENTS

RESULT 1	ADL00213	standard; protein; 121 AA.
ID	ADL00213	
AC	ADL00213;	
XX		
DT	20-MAY-2004	(first entry)
XX		
DE	Human FcgammaRIIB antibody heavy chain.	
XX		
KW	Cytostatic; antirheumatic; antiarthritic; antipsoriatic; dermatological;	
KW	Immunosuppressive; antiinflammatory; antiasthmatic; antiallergic;	
KW	Immunosuppressive; nephrotoxic; ophthalmological;	
KW	B cell receptor-mediated signaling modulator;	
KW	Fc gamma RI-induced mast cell activation modulator;	
KW	B cell activation modulator; B cell proliferation modulator;	
KW	Antibody production effector; intracellular calcium influx modulator;	
KW	Vaccine composition efficacy enhancer; gene therapy; FcgammaRIIB; cancer;	
KW	Breast cancer; ovarian cancer; prostate cancer; cervical cancer;	
KW	Pancreatic cancer; chemotherapy; immunotherapy; radiation therapy;	
KW	Hormonal therapy; autoimmune disorder; rheumatoid arthritis;	
KW	Psoriatic arthritis; ankylosing spondylitis; Rieker's Syndrome;	
KW	Psoriasis; lupus erythematosus; IGE-mediated allergic disorder; asthma;	
KW	Allergic rhinitis; gastrointestinal allergy; eosinophilia;	
KW	Conjunctivitis; glomerular nephritis; autoimmune disease; vaccine;	
KW	B cell malignancy; non-Hodgkin's lymphoma; solid tumour;	
KW	Fragment of crystallisation gamma receptor IIB; antibody heavy chain;	
XX		
OS	Homo sapiens.	
XX		
PN	WO2004016750-A2.	
XX		
PD	26-FEB-2004.	
XX		
PF	14-AUG-2003; 2003WO-US025399.	
XX		
PI	14-AUG-2002; 2002US-0403266P.	
XX		
PA	(MACR-) MACROGENICS INC.	
XX		
PI	Koenig S, Veri M;	
DR	WPI, 2004-203783/19.	
XX		
DR	N-PSDB; ADL00212.	
XX		
PT	Novel isolated antibody or its fragment useful for treating diseases	

PT e.g., cancer, that specifically binds native FcgammaRIIb with greater
 PT affinity than antibody or its fragment that binds native FcgammaRIIA.
 XX
 PS Disclosure; SEQ ID NO 2; 174pp; English.

XX The invention describes an isolated antibody or its fragment (I) that
 CC specifically binds native FcgammaRIIb. (I) is useful for treating cancer
 CC (e.g., breast, ovarian, prostate, cervical or pancreatic cancer) in a
 CC patient (e.g., human) having cancer with specific cancer antigen which
 CC involves administering a first antibody or its fragment which is (I) and
 CC a second antibody that specifically binds the cancer antigen and is
 CC cytotoxic. The above method further involves administration of one or
 CC more additional cancer therapies such as chemotherapy, immunotherapy,
 CC radiation therapy, hormonal therapy, or surgery. (I) is useful for
 CC treating an autoimmune disorder e.g., rheumatoid arthritis, psoriatic
 CC arthritis, ankylosing spondylitis, Reiter's Syndrome, psoriasis, or lupus
 CC erythematosus. The above method further involves administering to the
 CC patient a therapeutically effective amount of one or more anti-
 CC inflammatory agents or immunomodulatory agents e.g., small organic
 CC molecule such as methotrexate or corticosteroid. The anti-inflammatory
 CC agent is a non-steroidal anti-inflammatory drug e.g., aspirin or
 CC ketoprofen. (I) is also useful for: treating IgE-mediated allergic
 CC disorder such as asthma, allergic rhinitis, gastrointestinal allergies,
 CC eosinophilia, conjunctivitis, or glomerular nephritis; enhancing an
 CC antibody mediated cytotoxic effect in a subject; diagnosing an autoimmune
 CC disease in a subject; enhancing an immune response to a vaccine
 CC composition in a subject; treating a B cell malignancy (e.g., non-
 CC Hodgkin's lymphoma); treating a disease in a patient; treating a solid
 CC tumour in a patient; and treating cancer in a patient. (I) has an altered
 CC affinity for an FcgammaRII. (I) antibody binds FcgammaRIIA with a higher
 CC affinity than a comparable antibody comprising a wild-type Fc region
 CC binds FcgammaRIIA. (I) has an enhanced antibody mediated effector
 CC function relative to a comparable antibody comprising a wild-type Fc
 CC region. This is the amino acid sequence of human fragment of
 CC crystallisation gamma receptor IIB (FcgammaRIIb) antibody heavy chain.
 CC
 XX

Sequence 121 AA;

Query Match 100.0%; Score 651; DB 8; Length 121;
 Best Local Similarity 100.0%; Pred. No. 5.2e-47;
 Matches 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QVQLQGPVTELVKPGASVMTLSCKASDYPFTNWMHWKORPGQGLEWIGVLDPSDTPYNY 60
 DB 1 QVQLQGPVTELVKPGASVMTLSCKASDYPFTNWMHWKORPGQGLEWIGVLDPSDTPYNY 60
 QY 61 NKKFKGKATLTIVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTVS 120
 DB 61 NKKFKGKATLTIVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSGMDYWGQGTSTVTVS 120
 QY 121 S 121
 DB 121 S 121

RESULT 2

ADH17833
 ID ADH17833 standard; protein; 122 AA.

ADH17833;
 11-MAR-2004 (first entry)

DE Murine antibody 1fb1 heavy chain variable region protein.

KX antibody EM164; insulin-like growth factor-I receptor; IGF-IR antagonist;
 KW breast cancer; colon; ovarian carcinoma; osteosarcoma; cervical;
 KW prostate; lung; synovial carcinoma; pancreatic; murine; mouse;
 XX heavy chain variable region; 1fb1.

Mus sp.

WO2003106621-A2.

XX 24-DEC-2003.

PF 12-JUN-2003; 2003MO-US016211.

PR 14-JUN-2002; 2002US-00170390.

PA (IMMU-) IMMUNOGEN INC.

PI Singh R, Tavares DJ, Dagdigian NE;

DR WPI; 2004-082172/08.

PT Novel murine antibody EM164 or antibody fragment that specifically binds
 PT to insulin-like growth factor-I-receptor useful for treating breast
 PT cancer, colon cancer, lung cancer, prostate cancer.

XX Example 2; SEQ ID NO 73; 155pp; English.

XX The invention relates to a novel murine antibody EM164 or antibody
 CC fragment that specifically binds to insulin-like growth factor-I receptor
 CC (IGF-IR) where the antibody is an antagonist of the receptor, is
 CC substantially devoid of agonist activity toward the receptor and is
 CC capable of inhibiting the growth of a cancer cell by greater than 80% in
 CC the presence of a growth stimulant chosen from serum, IGF-I and IGF-II.
 CC The antibody of the invention may be useful for diagnosing or treating a
 CC patient having a cancer selected from breast cancer, colon cancer,
 CC ovarian carcinoma, osteosarcoma, cervical cancer, prostate cancer, lung
 CC cancer, synovial carcinoma and pancreatic cancer. The current sequence is
 CC that of the murine anti-IGF-IR antibody EM164-related protein of the
 CC invention.

Sequence 122 AA;

Query Match 77.2%; Score 502.5; DB 8; Length 122;
 Best Local Similarity 78.6%; Pred. No. 1.5e-34;
 Matches 99; Conservative 7; Mismatches 11; Indels 9; Gaps 2;

QY 1 QVQLQGPVTELVKPGASVMTLSCKASDYPFTNWMHWKORPGQGLEWIGVLDPSDTPYNY 60
 DB 1 QVQLQGPVTELVKPGASVMTLSCKASDYPFTNWMHWKORPGQGLEWIGVLDPSDTPYNY 60
 QY 61 NKKFKGKATLTIVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSG----MDYWGQGT 115
 DB 61 NKKFKGKATLTIVVSSSTAYWQLSLTSDSAVYYCARNGSDYYSG----MDYWGQGT 115
 QY 116 SVTVSS 121
 DB 117 SVTVSS 122

RESULT 3

ADW11464
 ID ADW11464 standard; protein; 122 AA.

ADW11464;

DT 24-MAR-2005 (first entry)

DE Murine anti-IGF I receptor antibody EM164 VH-homologous 1fb1 protein.

KX antibody; cytostatic; cancer; neoplasm; breast tumor; colon tumor;
 KW uterine cervix tumor; prostatic cancer; lung tumor; pancreas tumor;
 KW ovary tumor; carcinoma; osteosarcoma; melanoma; nervous system tumor;
 XX gene therapy; heavy chain variable region.

OS unidentified.

PN US2004265307-A1.

PD 30-DEC-2004.

PF 08-DEC-2003; 2003US-00729441.

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 15, 2006, 17:32:01 ; Search time 26.0044 Seconds
(without alignments)
447.702 Million cell updates/sec

Title: US-10-524-134-2

Perfect score: 651

Sequence: 1 QVQLQGPVTELVKRGASVNL.....SDYSGMDYWGQTSVTSS 121

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : PIR 80:*

1: PIR1:*

2: PIR2:*

3: PIR3:*

4: PIR4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	490	75.3	123	2	S20646 Ig heavy chain V r
2	483.5	74.3	120	2	S41394 Ig heavy chain V r
3	476	73.1	120	2	S25175 Ig heavy chain V r
4	476	73.1	122	2	S20643 Ig heavy chain V r
5	475.5	73.0	120	2	B22769 Ig heavy chain V r
6	471.5	72.4	117	2	B27563 Ig heavy chain V r
7	470	72.2	138	2	E32513 Ig heavy chain pre
8	468.5	72.0	116	2	S53751 antibody Fab Jcl 1
9	458.5	70.4	122	2	S24287 Ig heavy chain V r
10	457.5	70.3	128	1	MEMS18 Ig heavy chain pre
11	457.5	70.3	126	4	PC4402 Ig heavy chain pre
12	454.5	69.8	126	2	S31930 Ig gamma chain pre
13	453.5	69.7	141	2	UL0076 Ig heavy chain pre
14	452.5	69.5	135	2	A30577 Ig heavy chain pre
15	452	69.4	138	1	HVMS77 Ig heavy chain pre
16	451	69.3	136	2	PI0208 Ig gamma chain pre
17	449	69.0	246	2	S38950 Ig gamma chain - m
18	449	69.0	446	2	S40235 Ig gamma-2a chain
19	448.5	68.9	139	2	ES0024 Ig heavy chain pre
20	446.5	68.6	118	2	C30560 Ig heavy chain V r
21	444.5	68.3	120	2	S09956 Ig heavy chain V-D
22	444	68.2	138	2	S21810 Ig heavy chain V r
23	442.5	68.0	117	2	S55541 Ig heavy chain V r
24	442.5	68.0	141	2	A39276 Ig heavy chain pre
25	441	67.7	121	2	A26405 Ig heavy chain V r
26	441	67.7	123	2	E48677 Ig heavy chain V-D
27	439	67.4	98	2	PH1160 Ig heavy chain V r
28	439	67.4	110	2	S26317 Ig heavy chain V r
29	439	67.4	119	2	PI0089 Ig heavy chain V r

30	438	67.3	117	2	G45722 anti-glycoprotein
31	437	67.1	136	2	B47159 Ig heavy chain V r
32	436	67.0	131	2	A27472 Ig heavy chain pre
33	435.5	66.9	139	2	A27609 Ig heavy chain pre
34	435	66.8	118	2	S38565 Ig heavy chain V r
35	435	66.8	123	2	F48677 Ig heavy chain V-D
36	434.5	66.7	116	2	S26309 Ig heavy chain V r
37	434.5	66.7	119	2	A24672 Ig heavy chain pre
38	434	66.7	123	2	G48677 Ig heavy chain V-D
39	434	66.7	140	1	HVMS77 Ig heavy chain pre
40	433	66.5	109	2	S26318 Ig heavy chain V r
41	432.5	66.4	136	2	JI0077 Ig heavy chain pre
42	431	66.2	116	2	S55542 Ig heavy chain V r
43	430.5	66.1	123	2	S60067 Ig heavy chain V r
44	430	66.1	140	2	PH1482 Ig heavy chain V r
45	428	65.7	121	2	A21854 Ig heavy chain V r

ALIGNMENTS

```
RESULT 1
S20646
Ig heavy chain V region - mouse
C/Species: Mus musculus (house mouse)
C/Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 23-Jul-1999
C/Accession: S20646
R/Losman, M.; Faay, T.M.; Novick, K.E.; Monestier, M.
submitted to the EMBL Data Library, February 1992
A/Description: Relationships among antinuclear antibodies from autoimmune MRL mice reacti
A/Reference number: S20639
A/Accession: S20646
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-123 <LOS>
A/Cross-references: UNIPARC:UPI0000116020; EMBL:X65001; NID:G52642; PIDN:CAA6134.1; PID:
C/Keywords: heterotetramer; immunoglobulin
F/15-98/Domain: immunoglobulin homology <IMM>

Query Match          75.3%; Score 490; DB 2; Length 123;
Best Local Similarity 78.0%; Pred. No. 3; Je-36;
Matches 96; Conservative 6; Mismatches 19; Indels 2; Gaps 1;

QY      1 QVQLQGPVTELVKRGASVNLSCASDYPFTNYWIHWKQRPQGLENIQVIDPSQTYPNY 60
          |||..|||..|||..|||..|||..|||..|||..|||..|||..|||..|||..
Db      1 QVQLQGPVTELVKRGASVNLSCASGYTFNNYWIHWKQRPQGLENIQVIDPSDNTYY 60

QY      61 NKKRKQATLVVSSSTAYMQLSLSDSAVYYCARNDSDYSG--MDYWGQTSVT 118
          |||..|||..|||..|||..|||..|||..|||..|||..|||..|||..|||..
Db      61 NQFKGATLVDSSTAYMQLSLTSEDSATYCCRRRYRYYDLRRGYAMDYWGQTSVT 120

QY      119 VSS 121
          |||
Db      121 VSS 123

RESULT 2
S41394
Ig heavy chain V region - mouse
C/Species: Mus musculus (house mouse)
C/Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 20-Jun-2000
C/Accession: S41394
R/Margallite, C.; Gilbert, D.; Brard, F.; Tron, F.
submitted to the EMBL Data Library, January 1994
A/Description: Structural characterization of an (NZB X NZW) F1 mouse-derived IGM anti-DNV
A/Reference number: S41393
A/Accession: S41394
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-120 <MAR>
A/Cross-references: UNIPARC:UPI0000116582; EMBL:Z29586; NID:G452354; PIDN:CAA62703.1; PII
C/Superfamily: immunoglobulin V region; immunoglobulin homology
```

